

**DAFTAR PUSTAKA**

- Aalami, O.O., Fang, T.D., Song, H.M., Nacamuli, R.P., 2003. Physiological Features of Aging Persons. **Archives of Surgery**, Vol. 138 No. 10, p.1068-1076.
- Adikusuma W. 2018. Adherence Level and Blood Sugar Control of Type 2 Diabetes Mellitus Patients Who Gets Counseling and Short Messages Service as Reminder and Motivation. **Asian Journal of Pharmaceutical and Clinical Research**. Vol.11 No.2, p.219–22.
- Ahmad, N.S., Ramli, A., Islahudin, F., Paraidathathu, T., 2013. Medication Adherence in Patients with Type 2 Diabetes Mellitus Treated at Primary Health Clinics in Malaysia. **Patient preference and adherence**, Vol. 7, p. 525–530.
- Akturk, H.K., Snell-Bergeon, J.K., Rewers, A., Klaff, L.J., Bode, B.W., Peters, A.L., Bailey, T.S., Garg, S.K., 2018. Improved Postprandial Glucose with Inhaled Technosphere Insulin Compared with Insulin Aspart in Patients with Type 1 Diabetes on Multiple Daily Injections: The STATstudy. **Diabetes Technology & Therapeutic**, Vol. 20 No. 10, p.639–647.
- Alavudeen, S., Alakhali, K., Ansari, S.Y., Khan, N. 2015. Prescribing Pattern of Antihypertensive Drugs in Diabetic Patients of Southern Province, Kingdom of Saudi Arabia. **Ars Pharmaceutica**, Vol.56 No.2, p.109-114.
- Almaghaslah, D., Abdelrhman, A. K., Al-masdaf, S. K., Mohammed, L., Matary, B. M., Asiri, W. M., & Alqhatani, B. A., 2018. Factors Contributing to Non-adherence to Insulin Therapy Among Type 1 and Type2 Diabetes Mellitus Patients in Asser Region , Saudi Arabia. **Biomedical Research**, Vol. 29 No. 10, p.2090–2095.
- Al-Nozha, M. M., Ismail, H. M., & Al Nozha, O. M. 2016. Coronary Artery Disease and Diabetes Mellitus. **Journal of Taibah University Medical Sciences**, Vol.11 No.4, p.330–338.
- Alsayed, K.A., Ghoraba, M.K., 2019. Assessment of Diabetic Patients' Adherence to Insulin Injections on Basal-Bolus Regimen in Diabetic Care Center in Saudi Arabia 2018: Cross sectional survey. **Journal of Family Medicine and Primary Care**, Vol. 8 No. 6, p.1964-1970.
- Alterovitz, S. S. R., & Mendelsohn, G. A. 2013. Relationship Goals of Middle-Aged, Young-Old, and Old-Old Internet Daters: An Analysis of Online Personal Ads. **Journal of Aging Studies**, Vol. 27 No. 2, p.159–165.
- American Association of Diabetes Educators. 2017. Insulin Injection Know-How Learning How to Inject Insulin. **American Association of Diabetes Educators**, Vol.1, p.1–8.

- American Diabetes Association. 2019. Older Adults: Standards of Medical Care in Diabetes – 2019. **Diabetes Care**, Vol. 42 No. 1, p.139–S147.
- American Geriatrics Society. 2012. Beers Criteria Update Expert Panel. American Geriatrics Society updated Beers Criteria for Potentially Inappropriate Medication Use in Older Adults. **Journal of The American Geriatrics Society**, Vol. 60 No. 4, p.616–631.
- American Geriatrics Society. 2015. Beers Criteria Update Expert Panel. American Geriatrics Society 2015 updated Beers Criteria for Potentially Inappropriate Medication Use in Older Adults. **Journal of The American Geriatrics Society**, Vol. 63 No. 11, p.2227–2246.
- Aminde, L. N., Tindong, M., Ngwasiri, C. A., Aminde, J. A., Njim, T., Fondong, A. A., & Takah, N. F. 2019. Adherence to Antidiabetic Medication and Factors Associated with Non-Adherence Among Patients with Type-2 Diabetes Mellitus in Two Regional Hospitals in Cameroon. **BioMed Central Endocrine Disorders**, Vol. 19 No.1, p.1-9.
- Andriane, Y., Sastramihardja, H. S., & Ruslami, R., 2016. Determinan Peresepan Polifarmasi pada Resep Rawat Jalan di Rumah Sakit Rujukan. **Global Medical & Health Communication**, Vol. 4 No. 1, p.66.
- Araki, A., & Ito, H. 2009. Diabetes Mellitus and Geriatric Syndromes. **Geriatrics & Gerontology International**, Vol.9 No.2, p.105–114.
- Awa, W. L., Fach, E.-M., Krakow, D., Welp, R., Kunder, J., Voll, A., Holl, R. 2012. Type 2 Diabetes From Pediatric to Geriatric Age: Analysis of Gender and Obesity Among 120,183 Patients From The German / Austrian DPV Database. **European Journal of Endocrinology**, Vol.167, p.245–254.
- Balkhi, B., Alwhaibi, M., Alqahtani, N., Alhawassi, T., Alshammari, T.M., Mahmoud, M., Almetwazi, M., Ata, S., Kamal, K.M. 2019. Oral Antidiabetic Medication Adherence and Glycaemic Control Among Patients with Type 2 Diabetes Mellitus: A Cross-Sectional Retrospective Study in A Tertiary Hospital in Saudi Arabia, **British Medical Journal**, Vol. 9 No. 7, p. 1-11.
- Basile J. 2010. Critical Appraisal of Amlodipine and Olmesartan Medoxomil Fixed-Dose Combination in Achieving Blood Pressure Goals. **Integrated blood pressure control**, Vol.3, p.91-104.
- Boss, G. R., Seegmiller, J. E., & Jolla, L., 1981. Age-Related Physiological Changes and Their Clinical Significance. **The Western Journal Of Medicine**. Vol. 135. p 434-440.
- Badan Pusat Statistik. 2015. **Statistik Penduduk Lanjut Usia 2014**. Jakarta: Badan Pusat Statistik.
- Brod, M., Rana, A., Barnett, A.H., 2012. Adherence Patterns in Patients with Type 2 Diabetes on Basal Insulin Analogues: Missed, Mistimed and

- Reduced Doses. **Current Medical Research & Opinion**, Vol. 28 No. 12, p.1933–1946.
- Bron, M., Marynchenko, M., Yang, H., Yu, A.P., Wu, E.Q., 2012. Hypoglycemia, Treatment Discontinuation, and Costs in Patients with Type 2 Diabetes Mellitus on Oral Antidiabetic Drugs. **Postgraduate Medicine**, Vol. 124 No. 1, p.124–132.
- Budnitz, D. S., Lovegrove, M. C., Shehab, N., & Richards, C. L., 2011. Emergency Hospitalizations for Adverse Drug Events in Older Americans. **New England Journal of Medicine**, Vol. 365, p.2002–2012.
- Caban, A. J., Lee, D. J., Gómez-Marín, O., Lam, B. L., & Zheng, D. D. 2005. Prevalence of Concurrent Hearing and Visual Impairment in US Adults: The National Health Interview Survey, 1997–2002. **American journal of public health**, Vol. 95 No. 11, p.1940–1942.
- Calderón-larrañaga, A., Diaz, E., Poblador-plou, B., & Gimeno-feliu, L. A., 2016. Non-Adherence to Antihypertensive Medication : The Role of Mental and Physical Comorbidity. **International Journal of Cardiology**, Vol. 207, p.310–316.
- Cantley, J., and Ashcroft, F. M. 2015. Q&A: insulin secretion and Type 2 Diabetes: Why Do B-Cells Fail? **BioMed Central Biology**, Vol. 13 No.33, p.1-7.
- Carney, R. M., Freedland, K. E., Eisen, S. A., Rich, M. W., & Jaffe, A. S., 1995. Major Depression and Medication Adherence in Elderly Patients with Coronary Artery Disease. **Health Psychology**, Vol. 14 No. 1, p. 88–90.
- Caughey, G.E., Roughead, E.E., Vitry, A.I., McDermott, R.A., Shakib, S., Gilbert, A.L., 2010. Comorbidity in The Elderly with Diabetes: Identification of Areas of Potential Treatment Conflicts. **Diabetes Research and Clinical Practice**, Vol. 87 No. 3, p.385–393.
- Charlesworth, C. J., Smit, E., Lee, D. S. H., Alramadhan, F., & Odden, M. C., 2015. Polypharmacy Among Adults Aged 65 Years and Older in the United States : 1988 – 2010. **Journals of Gerontology: Medical Sciences**, Vol. 00 No. 00, p.1–7.
- Cheiloudaki, E., & Alexopoulos, E. C., 2019. Adherence to Treatment in Stroke Patients. **International Journal of Environmental Research and Public Health**, Vol. 16, p.1-11.
- Cheng, A.Y.Y. 2005. Oral Antihyperglycemic Therapy for Type 2 Diabetes Mellitus. **Canadian Medical Association Journal**, Vol. 172 No. 2, p.213–226.
- Claxton, A. J., Cramer, J., & Pierce, C. 2001., A Systematic Review of The Associations Between Dose Regimens and Medication Compliance. **Clinical Therapeutics**, Vol. 23 No. 8, p.1296–1310.

- Col, N., Fanale, J.E., Kronholm, P., 1990. The Role of Medication Non Compliance and Adverse Drug Reactions in Hospitalizations of The Elderly. **Archives of Internal Medicines**, Vol. 150, p.841–845.
- Conn, V.S., Hafdahl, A.R., Cooper, P.S., Ruppar, T.M., Mehr, D.R., Russel, C.L., 2009. Interventions to Improve Medication Adherence Among Older Adults: Meta-Analysis of Adherence Outcomes Among Randomized Controlled Trials. **The Gerontologist**, Vol. 49 No. 4, p. 447–462.
- Copeland, L.G., Dutton, J., Roberts, N.B., Playfer, J.R., 1994. Routine Out-Patient L-Dopa Monitoring in Elderly Patients with Parkinson's Disease. **Age Ageing**, Vol. 23 No. 2, p.138–141.
- Costa, E., Pecorelli, S., Giardini, A., Savin, M., Menditto, E., Lehane, E., Laosa, O., Monaco, A., Marengoni, A., 2015. Interventional Tools to Improve Medication Adherence: Review of Literature. **Patient Preference and Adherence**, Vol. 9, p.1303–1314.
- Cukierman, T., Gerstein, H.C., Williamson, J.D., 2005. Cognitive Decline and Dementia in Diabetes—Systematic Overview of Prospective Observational Studies. **Diabetologia**, Vol. 48 No. 12, p.2460–2469.
- Davies, M.J., D'Alessio, D.A., Fradkin, J., 2018. Management of hyperglycemia in Type 2 Diabetes. A Consensus Report by The American Diabetes Association (ADA) and The European Association for the Study of Diabetes (EASD). **Diabetes Care**, Vol. 41 No. 12, p.2669–2701.
- Davies, M.J., Gagliardino, J.J., Gray, L.J., Khunti, K., Mohan, V., Hughes, R. 2013., Real-World Factors Affecting Adherence to Insulin Therapy in Patients with Type 1 or Type 2 Diabetes Mellitus: A Systematic Review. **Diabetic Medicine: A Journal of The British Diabetic Association**, Vol. 30 No. 5, p.512–24.
- De Baldoni, A. O., Ayres, L. R., Martinez, E. Z., Dewulf, N. de L. S., dos Santos, V., Obreli-Neto, P. R., & Pereira, L. R. L. 2013. Pharmacoepidemiological Profile and Polypharmacy Indicators in Elderly Outpatients. **Brazilian Journal of Pharmaceutical Sciences**, Vol. 49 No. 3, p. 443–452.
- DeFronzo, R. A. 2009. From the Triumvirate to the Ominous Octet: A New Paradigm for the Treatment of Type 2 Diabetes Mellitus. **Diabetes**, Vol. 58 No.4, p.773–795.
- Departemen Kesehatan Republik Indonesia. 2005. **Pharmaceutical Care Untuk Penyakit Diabetes Mellitus**. Jakarta : Direktorat Bina Farmasi Komunitas dan Klinik.
- Derosa, G., and Maffioli, P. 2012.  $\alpha$ -Glucosidase Inhibitors and Their Use in Clinical Practice. **Archives of Medical Science**, Vol.8 No.5, p.899–906.
- Divya, S. and Nadig, P. 2015. Factors Contributing to Non-Adherence to

- Medication Among Type 2 Diabetes Mellitus In Patients Attending Tertiary Care Hospital In South India. **Asian Journal of Pharmaceutical and Clinical Research**, Vol.8 No.2, p.274-276.
- Dziechciaż, M., & Filip, R. 2014. Biological Psychological and Social Determinants of Old Age: Bio-Psycho-Social Aspects of Human Aging. **Annals of Agricultural and Environmental Medicine**, Vol. 21 No. 4, p. 835–838
- Ebbesen J, Buajorder I, Erickson J, Brors O, Hilberg T, Svaar H, Sandvik L., 2001. Drug-Related Deaths in A Department of Internal Medicine. **Archives of Internal Medicines**, Vol. 161, p.2317–2323.
- Eisen, S.A., Miller, D.K., Woodward, R.S., Spitznagel, E., Przybeck, T.R., 1990. The Effect of Prescribed Daily Dose Frequency on Patient Medication Compliance. **Archives of Internal Medicines**, Vol. 150, p.1881–1884.
- El-saifi, N., Moyle, W., Jones, C., & Tuffaha, H., 2017. Medication Adherence in Older Patients With Dementia: A Systematic Literature Review. **Journal of The Pharmacy Practice**, Vol. 31 No. 3, p.322-334.
- Fagot CA, Rolka DB, Beckles GL, Gregg EW, Narayan KM., 2000. Prevalence of Lipid Abnormalities, Awareness, and Treatment in U.S. Adults with Diabetes. Abstract 318. **Diabetes**, Vol. 49 No. 1, p.A78–A79.
- Famulla, S., H'ovelmann, U., Fischer, A., Coester, H.V., Hermanski, L., Kaltheuner, M., Kaltheuner, L., Heinemann, L., Heise, T., Hirsch, L., 2016. Insulin Injection into Lipohypertrophic Tissue: Blunted and More Variable Insulin Absorption and Action and Impaired Postprandial Glucose Control. **Diabetes Care**, Vol. 39 No. 9, p.1486–1492.
- Farsaei S, Radfar M, Heydari Z, Abbasi F, Qorbani M., 2014 Insulin Adherence in Patients with Diabetes: Risk Factors for Injection Omission. **Primary Care Diabetes**, Vol.8 No.4, p.338–345.
- Flores, L.M, Mengue, S.S. 2005. Drug use by the elderly in Southern Brazil. Rev Saude Publica. **Journal of Health Services : Planning, Administration, Evaluation**, Vol. 43 No. 3, p.437-458.
- Frid, A.H., Kreugel, G., Grassi, G., Halimi, S., Hicks, D., Hirsch, L.J., Smith, M.J., Wellhoener, R., Bode, B.W., Hirsch, I.B., Kalra, S., Ji, L., Strauss, K.W., 2016. New Insulin Delivery Recommendations. **Mayo Clinic Proceedings**, Vol. 91 No. 9, p.1231–1255.
- Fulton, M.M., Riley Allen, E., 2005. Polypharmacy in The Elderly: A Literature Review. **Journal of the American Academy of Nurse Practitioners**, Vol. 17 No. 4, p.123–132.
- Gabriel, M., Gagnon, J.P., and Bryan, C.K., 1977. Improved Patient Compliance through Use of a Daily Drug Reminder Chart,

- American Journal of Public Health**, Vol. 67 No. 10 , p. 967–968.
- Garfinkel, D., Mangin, D., 2010. Feasibility Study of A Systematic Approach For Discontinuation of Multiple Medications in Older Adults: Addressing Polypharmacy. **Archives of Internal Medicines**, Vol. 170 No. 18, p.1648–1654.
- Gautério-Abreu, D.P., Santos,S.S.C., Silva, B.T., Ilha, S., Gomes, G.C., 2015. Elderly Receiving Outpatient Care: Reasons for Adherence/Nonadherence to Medication. **Texto Contexto Enfermagem, Florianópolis**, Vol. 24 No. 4, p.1094-103.
- Gebreyohannes, E. A., Bhagavathula, A. S., Abebe, T. B., Tefera, Y. G., & Abegaz, T. M. 2019. Adverse Effects and Non-Adherence to Antihypertensive Medications in University of Gondar Comprehensive Specialized Hospital. **Clinical Hypertension**, Vol. 25 No.1, p.1-9.
- George, N.E., Sunny, S., Sam, A.M., Sabu, A.S., Rodrigues, P.A. 2018. Effect of Medication Related Educational Interventions on Improving Medication Adherence in Patients With Type 2 Diabetes Mellitus. **Asian Journal of Pharmaceutical and Clinical Research**, Vol.11 No.1, p.167-170.
- Good, Chester B. 2002. Polypharmacy in Elderly Patients With Diabetes. **Diabetes Spectrum**, Vol. 15 No. 4, p. 240-248.
- Guerci, B., Chanan, N., Kaur, S., Jasso-mosqueda, J. G., & Lew, E. 2019. Lack of Treatment Persistence and Treatment Non Adherence as Barriers to Glycaemic Control in Patients with Type 2 Diabetes. **Diabetes Therapy**, Vol. 10 No. 2, p.437–449.
- Hajjar, E.R., Gray, S.L., Slattum, P.W., Hersh, L.R., Naples, J.G., Hanlon, J.T., 2016. Geriatrics, *In: Joseph T. DiPiro (Eds.). Pharmacotherapy A Pathophysiologic Approach Tenth Edition.* McGraw-Hill Education., pp. 252-283.
- Hansen, R.A., Farley, J.F., Droegge, M., Maciejewski, M.L. 2010. A Retrospective Cohort Study of Economic Outcomes and Adherence to Monotherapy with Metformin, Pioglitazone, or A Sulfonylurea Among Patients with Type 2 Diabetes Mellitus in The United States From 2003 to 2005. **Clinical Therapeutics**, Vol. 32 No. 7, p.1308-19.
- Hasina, R., Probosuseno., Wiedyaningsih, C. 2014. Hubungan Tingkat Kepatuhan, Kepuasan Terapi Dengan Kualitas Hidup Pasien Usia Lanjut Diabetes Melitus Tipe 2. **Jurnal Manajemen dan Pelayanan Farmasi**, Vol.4 No.4, p.251-256.
- Hastings, S. N., Kosmoski, J. C., Moss, J. M. 2010. Special Considerations of Adherence in Older Adults, *In: Bosworth, H (eds). Improving Patient Treatment Adherence : A Clinician’s Guide.* New York : Springer., p. 321-340

- He, Z., Bian, J., Carretta, H. J., Lee, J., Hogan, W. R., Shenkman, E., & Charness, N., 2018. Prevalence of Multiple Chronic Conditions Among Older Adults in Florida and The United States: Comparative Analysis of The One Florida Data Trust and National Inpatient Sample. **Journal of Medical Internet Research**, Vol. 20 No. 4, p.1-16.
- Ho, P. M., Rumsfeld, J. S., Masoudi, F. A., McClure, D. L., Plomondon, M. E., Steiner, J. F., & Magid, D. J. 2006. Effect of Medication Nonadherence on Hospitalization and Mortality Among Patients With Diabetes Mellitus. **Archives of Internal Medicine**, Vol.166 No.17, p.1836-1841.
- Holman, R.R., Paul, S.K., Bethel, M.A., Matthews, D.R., Neil, H.A.W. 2008. 10-Year Follow-Up of Intensive Glucose Control in Type 2 Diabetes. **The New England Journal of Medicine**, Vol. 359 No. 15, p.1577–1589.
- Horvat, O., Popržen, J., Tomas, A., Paut Kusturica, M., Tomić, Z., & Sabo, A. 2018. Factors Associated with Non-Adherence Among Type 2 Diabetic Patients in Primary Care Setting in Eastern Bosnia and Herzegovina. **Primary Care Diabetes**, Vol.12 No.2, p.147–154.
- Hullen, T., Dundas, R., Lawrence, F., Stewart, J.A., Rudd, A.G., Wolfe, C.D. 2000. Anti-Thrombotic and Anti-Hypertensive Management 3 Months After Ischemic Stroke. **Stroke**, Vol. 31 No. 2, p.469–475.
- Huri, Z., and Ling, C. 2013. Drug-Related Problems in Type 2 Diabetes Mellitus Patients with Dyslipidemia. **BioMed Central Public Health**, Vol. 13 No. 1192, p.1-13.
- Inamdar, S.Z., Kulkarni, R.V. 2016. Drug Related Problems in Elderly Patients with Type 2 Diabetes Mellitus. **Journal of Diabetology**, Vol. 1 No. 1, p.1-12.
- Indrasanto, Doti. 2006. **Glosarium Data dan Informasi Kesehatan**. Departemen Kesehatan RI. Jakarta.
- International Diabetes Federation. 2019. **IDF Diabetes Atlas Ninth Edition 2019**. Diakses dari [www.diabetesatlas.org/upload/resources/2019/IDF Atlas 9th Edition 2019.pdf](http://www.diabetesatlas.org/upload/resources/2019/IDF_Atlas_9th_Edition_2019.pdf) pada tanggal 10 Juli 2020.
- James, P.A., Oparil, S., Carter, B.L., Cushman, W.C., Dennison-Himmelfarb, C., Handler, J., et al. 2014. Evidence-Based Guideline For The Management of High Blood Pressure in Adults: Report From The Panel Members Appointed to The Eighth Joint National Committee (JNC 8). **Journal of The American Medical Association**, Vol.311 No.5, p.507-520.
- Jaul, E., Barron, J., Rosenzweig, J. P., & Menczel, J. 2018. An Overview of Co-Morbidities and The Development of Pressure Ulcers Among Older Adults. **BioMed Central Geriatrics**, Vol. 18 No. 1, p. 1–11.

- Jeon, H. J., Oh, J., & Shin, D. H. 2019. Urate-Lowering Agents for Asymptomatic Hyperuricemia in Stage 3 – 4 Chronic Kidney Disease: Controversial Role of Kidney Function. **Plos One**, Vol.14 No.6, p.1-13
- Jorgensen T, Johansson S, Kennerfalk A, Wallander M, Svardsudd K. 2001. Prescription Drug Use, Diagnoses, and Healthcare Utilization Among The Elderly. **The Annals of Pharmacotherapy**, Vol. 35 No. 9, p.1004–1009.
- Josse, R., Chiasson, J.-L., Ryan, E., Lau, D.C., Ross, S., Yale, J.-F., Meneilly, G. 2003. Acarbose in The Treatment of Elderly Patients with Type 2 Diabetes. **Diabetes Research and Clinical Practice**, Vol.59 No.1, p.37–42.
- Kalra, S., Bahendeka, S., Sahay, R., Ghosh, S., Md, F., Orabi, A., Ramaiya, K., Al Shammari, S., Shrestha, D., Shaikh, K., Abhayaratna, S., et al. 2018. Consensus Recommendations on Sulfonylurea and Sulfonylurea Combinations in the Management of Type 2 Diabetes Mellitus - International Task Force. **Indian journal of endocrinology and metabolism**, Vol.22 No.1, p.132–157.
- Kane, J.M., Kishimoto, T., Correll, C.U.2013, Non-Adherence to Medication in Patients with Psychotic Disorders: Epidemiology, Contributing Factors and Management Strategies. **Journal of The World Psychiatric Association**, Vol. 12 No. 3, p.216-26.
- Kardas, P. 2005. The DIACOM study (effect of Dosing frequency of Oral Antidiabetic Agents on The Compliance and Biochemical Control of Type 2 Diabetes). **Diabetes, Obesity and Metabolism**, Vol. 7 No. 6, p.722–728.
- Kassahun, A., Gashe, F., Mulisa, E., & Rike, W. A. 2016. Nonadherence and Factors Affecting Adherence of Diabetic Patients to Anti-Diabetic Medication in Assela General Hospital, Oromia Region, Ethiopia. **Journal of Pharmacy & Bioallied Sciences**, Vol.8 No.2, p.124–129.
- Kementerian Kesehatan Republik Indonesia. 2013. Gambaran Kesehatan Lanjut Usia di Indonesia. **Buletin Jendela Data dan Informasi Kesehatan**. Jakarta: Pusat Data dan Informasi Kementerian Kesehatan RI.
- Kementerian Kesehatan Republik Indonesia. 2014. **Profil Kesehatan Indonesia Tahun 2013**. Jakarta : Kementerian Kesehatan RI.
- Kementerian Kesehatan Republik Indonesia. 2014. Situasi dan Analisis Lanjut Usia. **Infodatin Pusat Data dan Informasi Kementerian Kesehatan RI**. Jakarta: Pusat Data dan Informasi Kementerian Kesehatan RI.
- Kementerian Kesehatan Republik Indonesia. 2018. **Profil Kesehatan Indonesia Tahun 2017**. Jakarta : Kementerian Kesehatan RI.



- Kim, S., Shin, D.W., Yun, J.M., Hwang, Y., Park, S.K., Ko, Y.J., Cho, B. 2016. Medication Adherence and The Risk of Cardiovascular Mortality and Hospitalization Among Patients with Newly Prescribed Antihypertensive Medications. **Hypertension**, Vol. 67 No. 3, p.506–512.
- Kirkman MS, Briscoe VJ, Clark N. 2012. Diabetes in Older Adults. **Diabetes Care**, Vol. 35 No. 12, p. 2650–2664.
- Komiya ,T., Kudo, M., Urabe, T., Mizuno, Y., 1994. Compliance with Antiplatelet Therapy in Patients with Ischemic Cerebrovascular Disease: Assessment by Platelet Aggregation Testing. **Stroke**, Vol. 25 No. 12, p.2337–2342.
- Kurniawan, I. 2010. Diabetes Melitus Tipe 2 pada Usia Lanjut. **Majalah Kedokteran Indonesia**, Vol. 60 No. 12, p.576-584.
- Lastra, G., Syed, S., Kurukulasuriya, L. R., Manrique, C., & Sowers, J. R. 2014. Type 2 Diabetes Mellitus and Hypertension. **Endocrinology and Metabolism Clinics of North America**, Vol.43 No.1, p.103–122.
- Lehmann, A., Aslani, P., Ahmed, R., Celio, J., Gauchet, A., Bedouch, P., Schneider, M. P. 2013. Assessing Medication Adherence: Options to Consider. **International Journal of Clinical Pharmacy**, Vol.36 No.1, p.55–69.
- Leporini, C., De Sarro, G., & Russo, E. 2014. Adherence to Therapy and Adverse Drug Reactions: Is There A Link? **Expert Opinion on Drug Safety**, Vol. 13 No. 1, p. 41-55.
- Lin, T.-C., Yang, C.-Y., Kao Yang, Y.-H., & Lin, S.-J. 2011. Alendronate Adherence and Its Impact on Hip-Fracture Risk in Patients With Established Osteoporosis in Taiwan. **Clinical Pharmacology & Therapeutics**, Vol. 90 No. 1, p.109–116.
- Little, W., 2016. **Introduction to Sociology: 2nd Canadian Edition**, Canada: Bccampus.
- Loh, K.Y., Ogle, J. 2004. Age Related Visual Impairment in The Elderly. **The Medical Journal of Malaysia**, Vol.59 No.4, p.562-568.
- Lopes, S., Rocha, C., & Cruz, R. 2019. Polypharmacy in Elderly Patients in a Community Pharmacy. **Journal of Pharmacy and Pharmacology**, Vol. 7 No. 28, p. 75–90.
- Madaan, T., Akhtar, M., & Najmi, A. K. 2016. Sodium Glucose Cotransporter 2 (SGLT2) Inhibitors: Current Status and Future Perspective. **European Journal of Pharmaceutical Sciences**, Vol.93, p.244–252.
- Makrilakis, K. 2019. The Role of DPP-4 Inhibitors in the Treatment Algorithm of Type 2 Diabetes Mellitus: When to Select, What to Expect. **International Journal of Environmental Research and Public Health**, Vol. 16 No.15, p.2720.

- Marcum, Z. A., Hanlon, J. T., & Murray, M. D. 2017. Improving Medication Adherence and Health Outcomes in Older Adults: An Evidence-Based Review of Randomized Controlled Trials. **Drugs & Aging**, Vol. 34 No. 3, p.191–201.
- Maruthur, N.M., Tseng, E., Hutfless, S., Wilson, L.M., Suarez-Cuervo, C., Berger, Z., Chu, Y., Iyoha, E., Segal, J.B., Bolen, S. 2016. Diabetes Medications as Monotherapy or Metformin-Based Combination Therapy for Type 2 Diabetes: A Systematic Review and Metaanalysis. **Annals of Internal Medicine**, Vol. 164 No. 11, p.740–751.
- Mashitani, T., Hayashino, Y., Okamura, S., Kitatani, M., Furuya, M., Matsunaga, S., Kuwata, H., Tsujii, S., Ishii, H. 2013. Patient-Reported Adherence to Insulin Regimen is Associated with Glycemic Control Among Japanese Patients with Type 2 Diabetes: Diabetes Distress and Care Registry at Tenri (DDCRT 8). **Diabetes Research and Clinical Practice**, Vol. 100 No. 2, p.189–94.
- Mashitani, T., Hayashino, Y., Okamura, S., Kitatani, M., Furuya, M., Iburi, T., Kuwata, H., Tsujii, S., Ishii, H., 2015. Diabetes Treatment-Related Quality of Life is Associated with Levels of Self-Care Activities in Insulin Injection Among Japanese Patients with Type 2 diabetes: Diabetes Distress and Care Registry at Tenri (DDCRT 8). **Acta Diabetologica**, Vol. 52 No. 4, p.639–47.
- McGovern, A., Hinton, W., Calderara, S., Munro, N., Whyte, M., de Lusignan, S. 2018. A Class Comparison of Medication Persistence in People with Type 2 Diabetes: A Retrospective Observational Study. **Diabetes Therapy : Research, Treatment and Education of Diabetes and Related Disorders**, Vol. 9 No.1 p.229-42.
- McKhann, G. M., Knopman, D. S., Chertkow, H., Hyman, B. T., Jack, C. R., Kawas, C. H., Phelps, C. H. 2011. The diagnosis of dementia due to Alzheimer's disease: Recommendations from the National Institute on Aging-Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease. **Alzheimer's & Dementia**, Vol. 7 No. 3, p.263–269.
- Menteri Kesehatan RI. 2014. Peraturan Menteri Kesehatan RI Nomor 79 tahun 2014 tentang Penyelenggaraan Pelayanan Geriatri di Rumah Sakit. Jakarta: Menteri Kesehatan RI.
- Mildawati., Diani, N., Wahid, A. 2019. Hubungan Usia, Jenis Kelamin dan Lama Menderita Diabetes dengan Kejadian Neuropati Perifer Diabetik. **Caring Nursing Journal**, Vol.3 No.2, p.31-37.
- Mirghani, H. O. 2019. An Evaluation of Adherence to Anti-Diabetic Medications Among Type 2 Diabetic Patients in a Sudanese Outpatient Clinic. **The Pan African Medical Journal**, Vol. 34, p. 1-9.

- Misiaszek, B.C. 2008 . **Geriatric Medicine Survival Handbook** (revised edition). p.11-19.
- Mooradian SD. 2009. Dyslipidemia in Type 2 Diabetes Mellitus. **Nature Clinical Practice: Endocrinology & Metabolism**, Vol. 5 No. 3, p.150–159.
- Moore, E. M., Mander, A.G., Ames, D. 2013. Increased Risk of Cognitive Impairment in Patients with Diabetes is Associated with Metformin. **Diabetes Care**, Vol. 36 No. 10, p.2981–2987.
- Moriwaki, Y. 2014. Effects on Uric Acid Metabolism of The Drugs Except The Antihyperuricemics. **Journal of Bioequivalence & Bioavailability**, Vol.6 No.1, p.010-017
- Naimi, M., Vlacheski, F., Shamshoum, H., Tsiani, E. 2017. Rosemary Extract as a Potential Anti-Hyperglycemic Agent: Current Evidence and Future Perspectives. **Nutrients**, Vol. 9 No. 9, p.1-19.
- Nicholl, J.S. 2002. Noncompliance with Treatment of Neurologic Disease. **Current Treatment Options in Neurology**, Vol. 4 No. 6, p.469-476.
- Nichols, M., Townsend, N., Scarborough, P., Rayner, M. 2013. Cardiovascular Disease in Europe: Epidemiological Update. **European Heart Journal**, Vol. 34 No. 39, p.3028–3034.
- Noale, M., Veronese, N., Cavallo Perin, P., Pilotto, A., Tiengo, A., Crepaldi, G., & Maggi, S. 2016 . Polypharmacy in Elderly Patients with Type 2 Diabetes Receiving Oral Antidiabetic Treatment. **Acta Diabetologica**, Vol. 53 No. 2, p.323–330.
- Nobili, A., Garattini, S., & Mannucci, P. M. 2011. Multiple Diseases and Polypharmacy in the Elderly: Challenges for the Internist of the Third Millennium. **Journal of Comorbidity**, Vol. 1 No. 1, p.28–44.
- Nordström, A., Hadrévi, J., Olsson, T., Franks, P. W., & Nordström, P. 2016. Higher Prevalence of Type 2 Diabetes in Men Than in Women Is Associated With Differences in Visceral Fat Mass. **The Journal of Clinical Endocrinology & Metabolism**, Vol.101 No.10, p.3740–3746.
- North, B. J., and Sinclair, D. A. 2012. The Intersection Between Aging and Cardiovascular Disease. **Circulation Research**, Vol.110 No.8, p.1097–1108.
- O’Mahony, D., O’Leary, P., & Quigley, E. M. M. 2002. Aging and Intestinal Motility. **Drugs & Aging**, Vol.19 No.7, p.515–527.
- Okayasu, S., Kitaichi, K., Hori, A., Suwa, T., Horikawa, Y., Yamamoto, M., Takeda, J., Itoh, Y. 2012. The Evaluation of Risk Factors Associated with Adverse Drug Reactions by Metformin in Type 2 Diabetes Mellitus. **Biological & Pharmaceutical Bulletin**, Vol.35 No.6, p. 933–937.
- Orimo, H., Ito, H., Suzuki, T., Araki, A., Hosoi, T., & Sawabe, M. 2006.

- Reviewing The Definition of “Elderly”. **Geriatrics & Gerontology International**, Vol. 6 No.3, p. 149–158.
- Park, H.Y., Seo, A.A., Yoo, H., Lee, K. 2018. Medication Adherence and Beliefs About Medication in Elderly Patients Living Alone with Chronic Diseases. **Patient Preference and Adherence**, Vol. 12, p.175–181.
- Parulekar, M. S., & Rogers, C. K., 2018. Polypharmacy and Mobility, *In* : David X. Cifu, Henry L. Lew and Mooyeon Oh-Park. **Geriatric Rehabilitation**, United States: Elsevier., pp. 121–129.
- Pasina, L., Brucato, A. L., Falcone, C., Cucchi, E., Bresciani, A., Sottocorno, M., Taddei, G.C., Casati, M., Franchi, C., Djade, C.D., Nobili, A., 2014. Medication Non-Adherence Among Elderly Patients Newly Discharged and Receiving Polypharmacy. **Drugs and Aging**, Vol. 31 No. 4, p. 283–289.
- Pendlebury, S. T., & Rothwell, P. M. 2009. Prevalence, Incidence, and Factors Associated with Pre-Stroke and Post-Stroke Dementia : A Systematic Review and Meta-Analysis. **The Lancet Neurology**, Vol. 8 No. 11, p.1006–1018.
- Peron, E. P., Ogbonna, K. C., & Donohoe, K. L. 2016. Diabetic Medications and Polypharmacy. **Diabetic**, Vol. 31 No. 1, p.1–14.
- Petcu, E. B., Smith, R. A., Miroiu, R. I., Opris, M. M. 2010. Angiogenesis in Old-Aged Subjects After Ischemic Stroke: A Cautionary Note for Investigators. **Journal of Angiogenesis Research**, Vol.2 No. 26, p.1-10.
- Philpott, H. L., Nandurkar, S., Lubel, J., & Gibson, P. R. 2014. Republished: Drug-Induced Gastrointestinal Disorders. **Postgraduate Medical Journal**, Vol.90 No.1065, p.411–419.
- Porcellati, F., Lucidi, P., Cioli, P., Candeloro, P., Andreoli, A.M., Marzotti, S., Ambrogi, M., Bolli, G.B., Fanelli, C.G. 2015. Pharmacokinetics and Pharmacodynamics of Insulin Glargine Given in The Evening as Compared with in The Morning in Type 2 Diabetes. **Diabetes Care**, Vol. 38 No. 3, p.503–512.
- Pratama, E., Martini, R., Pertiwi, D. 2017. Gambaran Multipatologi Pasien Geriatri di Poliklinik Khusus Geriatri RSUP Dr. M. Djamil Padang Periode Januari – Desember 2014. **Jurnal Kesehatan Andalas**, Vol.6 No.3, p.536-545.
- Pretorius, R.W., Gataric, G., Swedlund, S.K., Miller, J.R. 2013. Reducing the Risk of Adverse Drug Events in Older Adults. **American Family Physician**, Vol.87 No.5, p.331-336.
- Pushpa, V.H., Nagesh, H.N., Ramesh, H.S. 2020. Study on Prescribing Pattern and Rational Use of Antidiabetic Drugs in Elderly Patients with Type 2 Diabetes Mellitus in Tertiary Care Hospital. **National Journal of Physiology, Pharmacy and Pharmacology**, Vol.10

- No.10, p.1-4.
- Rahmawati, Y., Sunarti, S. 2014. Permasalahan Pemberian Obat pada Pasien Geriatri di Ruang Perawatan RSUD Saiful Anwar Malan. **Jurnal Kedokteran Brawijaya**, Vol. 28 No. 2, p. 141-145.
- Raju, B., Resta, C., & Tibaldi, J. T. 2000. Metformin and Late Gastrointestinal Complications. **The American Journal of Medicine**, Vol.109 No.3, p.260–261.
- Ren, M., Teo, V., Heng, Y., Raaj, S., Tan, S. D., Zhen, J., & Tan, Y. 2014. Association Between Number of Doses Per Day , Number of Medications and Patient’s Non-Compliance, and Frequency of Readmissions in A Multi-Ethnic Asian Population. **Preventive Medicine Report**, Vol. 1, p. 43–47.
- Riker, G.I., & Setter, S.M. 2012. Polypharmacy in Older Adults at Home: What It Is and What to Do About It-Implications for Home Healthcare and Hospice. **Home Healthcare Nurse**, Vol. 30 No. 8, p.474-485.
- Roberts, R.O., Knopman, D.S., Przybelski, S.A., Mielke, M.M., Kantarci, K., Preboske, G.M., Senjem, M.L., Pankratz, V.S., Geda, Y.E., Boeve, B.F., Ivnik, R.J., Rocca, W.A, Petersen, R.C., Jack, C.R., 2014. Association of Type 2 Diabetes with Brain Atrophy and Cognitive Impairment. **Neurology**, Vol. 82 No. 13, p.1132–1141.
- Robinson, D.G., Woerner, M.G., Alvir, J.M. 2002. Predictors of Medication Discontinuation by Patients with First-Episode Schizophrenia and Schizoaffective Disorder. **Schizophrenia Research**, Vol. 57, p.209-19
- Rodriguez-Araujo, G., & Nakagami, H. 2018. Pathophysiology of Cardiovascular Disease in Diabetes Mellitus. **Cardiovascular Endocrinology & Metabolism**, Vol.7 No.1, p.4–9.
- Rohde, D., Gaynor, E., Large, M., Mellon, L., Bennett, K., Williams, D.J., Brewer, L., Hall, P., Callaly, E., Dolan, E., Hickey, A. 2019. Cognitive Impairment and Medication Adherence Post-Stroke: A Five-Year Follow-Up of The ASPIRE-S Cohort. **Plos One**, Vol. 84, p.1–15.
- Rollins, D.E. and Blumenthal, D.K. (Eds). 2016. Endocrine Pancreas and Pharmacotherapy of Diabetes Mellitus and Hypoglycemia, *In* : **Goodman and Gilman's The Pharmacological Basis of Therapeutics**, pp. 470-479.
- Romadhon, R., Saibi, Y., Nasir, N. M. 2020. Kepatuhan Terhadap Pengobatan Pasien Diabetes Melitus Tipe 2 di Puskesmas Jakarta Timur. **Jurnal Farmasi Galenika: Galenika Journal of Pharmacy**, Vol. 6 No.1, p.94-103.
- Rono, L.DC. 2018. Microcredit and its Relationship to The Growth of Small and Medium Enterprises in Konoin Subcounty, Kenya.

- International Journal of Advanced Research**, Vol.6 No.4, p.961-968.
- Sajith, M., Pankaj, M., Pawar, A., Modi, A., Sumariya, R. 2014. Medication Adherence To Antidiabetic Therapy In Patients With Type 2 Diabetes Mellitus. **International Journal of Pharmacy and Pharmaceutical Sciences**, Vol. 6 No.2, p.564-570.
- Sammulia, S.F., Rahmawati, F., Andayani, T.M. 2016. Perbandingan Pill Box dan Medication Chart dalam Meningkatkan Kepatuhan dan Outcome Klinik Geriatri Kota Batam. **Jurnal Manajemen dan Pelayanan Farmasi**, Vol. 6 No. 4, p. 288-296.
- Sarbacker, G. B., & Urteaga, E. M. 2016. Adherence to Insulin Therapy. **Diabetes spectrum : a publication of the American Diabetes Association**, Vol.29 No.3, p.166–170.
- Schreiber, A. K., Nones, C. F., Reis, R. C., Chichorro, J. G., & Cunha, J. M. 2015. Diabetic Neuropathic Pain: Physiopathology and Treatment. **World journal of diabetes**, Vol.6 No.3, p.432–444.
- Schuler, J., Dückelmann, C., Beindl, W., Prinz, E., Michalski, T., Pichler, M. 2008. Polypharmacy and Inappropriate Prescribing in Elderly Internal-Medicine Patients in Austria. **Wiener Klinische Wochenschrift**, Vol. 120 No. 23-24, p. 733–741.
- Schwinghammer, T.L. eds. 2015. Diabetes Mellitus, *In*: Barbara G. Wells, Joseph T. DiPiro, Terry L. Schwinghammer, Cecily V. DiPiro (Eds.). **Pharmacotherapy Handbook**, Ninth Edition. United States : McGraw-Hill Education., pp. 161-176.
- Sergi, G., De Rui, M., Sarti, S., & Manzato, E. 2011. Polypharmacy in the elderly: Can Comprehensive Geriatric Assessment Reduce Inappropriate Medication Use? **Drugs & Aging**, Vol. 28 No. 7, p. 509-518.
- Servat, J.J. 2011. Visual Impairment in the Elderly: Impact on Functional Ability and Quality of Life. **Clinical Geriatrics**, Vol.19 No.7, p.1-9.
- Sexton, E., Mcloughlin, A., Williams, D. J., Merriman, N. A., Donnelly, N., Rohde, D., Hickey, A., Wren, M.A., Bennett, K. 2019. Systematic Review and Meta-Analysis of The Prevalence of Cognitive Impairment Dementia in The First Year Post-Stroke. **European Stroke Journal**, Vol. 0 No. 0, p.1–12.
- Shams, N., Amjad, S., Kumar, N., Ahmed, W., Saleem, F., 2016. Drug Non-Adherence In Type 2 Diabetes Mellitus; Predictors And Associations. **Journal of Ayub Medical College Abbottabad**, Vol. 28 No. 2, p.302-307.
- Shruthi, R., Jyothi, R., Pundarikaksha, H.P., Nagesh, G.N., Tushar, T.J. 2016. A Study of Medication Compliance in Geriatric Patients with Chronic Illnesses at a Tertiary Care Hospital. **Journal of Clinical and Diagnostic Research**, Vol. 10 No. 12, p.40-43.

- Skyler, J. S., Bakris, G. L., Bonifacio, E., Darsow, T., Eckel, R. H., Groop, L., Ratner, R. E. 2016. Differentiation of Diabetes by Pathophysiology, Natural History, and Prognosis. **Diabetes**, Vol. 66 No. 2, p. 241–255.
- Slejko, J. F., Ho, M., Anderson, H. D., Nair, K. V., Sullivan, P. W., & Campbell, J. D. 2014. Adherence to Statins in Primary Prevention: Yearly Adherence Changes and Outcomes. **Journal of Managed Care Pharmacy**, Vol. 20 No. 1, p.51–57.
- Sola, D., Rossi, L., Schianca, G. P. C., Maffioli, P., Bigliocca, M., Mella, R., Derosa, G. 2015. State of The Art Paper Sulfonylureas and Their Use in Clinical Practice. **Archives of Medical Science**, Vol. 11 No.4 , p.840–848.
- Solomon DH, Cadarette SM, Choudhry NK, Canning C, Levin R, Stürmer T. 2009. A Cohort Study of Thiazolidinediones and Fractures in Older Adults with Diabetes. **The Journal of Clinical Endocrinology and Metabolism**, Vol. 94 No. 8, p. 2792–2798.
- Sowers, J.R. 2013. Diabetes Mellitus and Vascular Disease. **Hypertension**, Vol.61 No.5, p.943-947.
- Spinewine, A., Schmader, KE., Barber, N., Hughes, C., Lapane, K.L., Swine, C., Hanlon, J.T. 2007. Prescribing in elderly people. Part 1: Appropriate Prescribing in Elderly People: How Well Can It be Measured and Optimised? **Lancet**, Vol. 370, p.173–184
- Steinman, M.A., 2007. Polypharmacy and The Balance of Medication Benefits and Risks. **The American Journal of Geriatric Pharmacotherapy**, Vol. 5, p.314–316.
- Tibaldi, J. M. 2014. Incorporating Incretin-Based Therapies into Clinical Practice for Patients with Type 2 Diabetes. **Advances in Therapy**, Vol.31 No.3, p.289–317.
- Triplitt, Curtis L., Repas, Thomas., & Alvarez, Carlos., 2016. Diabetes Mellitus, *In*: Joseph T. DiPiro, Robert I. Talbert, Gary C. Yee, Gary R. Matzke, Barbara G.Wells, L. Michael Posey (Eds.). **Pharmacotherapy A Pathophysiologic Approach** Tenth Edition. McGraw-Hill Education., pp. 3218-3299
- Tsai, K., Chen, J., Wen, C., Kuo, H., Lu, I., Chiu, L., Chan, D. 2012. Medication Adherence Among Geriatric Outpatients Prescribed Multiple Medications. **The American Journal of Geriatric Pharmacotherapy**, Vol. 10 No. 1, p. 61–68.
- Tsai, K., Chen, J., Wen, C., Kuo, H., Lu, I., Chiu, L., Chan, D. 2012. Medication Adherence Among Geriatric Outpatients Prescribed Multiple Medications. **The American Journal of Geriatric Pharmacotherapy**, Vol. 10 No. 1, p. 61–68.
- Urfer, M., Elzi, L., Kuster, S.D., Bassetti, S. 2016. Intervention to Improve Appropriate Prescribing and Reduce Polypharmacy in Elderly

- Patients Admitted to an Internal Medicine Unit, **Plos One**, p. 1-15.
- Valenstein, M., Ganoczy, D., McCarthy, J.F. 2006. Antipsychotic Adherence Over Time Among Patients Receiving Treatment for Schizophrenia: A Retrospective Review. **The Journal of Clinical Psychiatry**, Vol. 67, p.1542-1550.
- Van der Laan, D. M., Elders, P. J. M., Boons, C. C. L. M., Nijpels, G., & Hugtenburg, J. G. 2019. Factors Associated With Nonadherence to Cardiovascular Medications. **The Journal of Cardiovascular Nursing**, Vol. 34 No. 4, p.344–352.
- Vijan, S., Sussman, J.B., Yudkin, J.S., Hayward, R.A. 2014. Effect of Patients' Risks and Preferences on Health Gains with Plasma Glucose Level Lowering in Type 2 Diabetes Mellitus. **Journal of The American Medical Association: Internal Medicine**, Vol. 174 No. 8, p.1227–1234
- Vu, C. U., Siddiqui, J. A., Wadensweiler, P., Gayen, J. R., Avolio, E., Bandyopadhyay, G. K., Biswas, N., Chi, N. W., O'Connor, D. T. and Mahata, S. K. 2014. Nicotinic Acetylcholine Receptors in Glucose Homeostasis: The Acute Hyperglycemic and Chronic Insulin-Sensitive Effects of Nicotine Suggest Dual Opposing Roles of The Receptors in Male Mice. **Endocrinology**, Vol.155 No.10, p.3793–3805.
- Wade, O.L., 1979. Compliance Problems. *In*: Crooks, J and Stevenson, I.H (Eds.). **Drugs and the Elderly Perspectives in Geriatric Clinical Pharmacology**, Ed. 1<sup>st</sup>, United Kingdom: The Macmillan Press, pp. 287-291.
- Walling, A.D. and Dickson, G.M. 2012. Hearing Loss in Older Adults. **American Family Physician**, Vol.85 No.12, p.1150-1156.
- Wang, P. S., Bohn, R. L., Knight, E., Glynn, R. J., Mogun, H., & Avorn, J. 2002. Noncompliance with Antihypertensive Medications The Impact of Depressive Symptoms and Psychosocial Factors. **Journal of General Internal Medicine**, Vol. 17 No. 7, p.504-511.
- Wang, Z., Hedrington, M.S., Gogitidze, Joy N., Briscoe, V.J., Richardson, M.A., Younk, L., Nicholson, W., Tate, D.B., Davis, S.N., 2010. Dose Response Effects of Insulin Glargine in Type 2 Diabetes. **Diabetes Care**, Vol. 33 No. 7, p.1555–1560.
- Wannamaker, B.B., Morton, W.A. Jr., Gross, A.J., Saunders, S., 1980. Improvement in Antiepileptic Drug Levels Following Reduction of Intervals Between Clinic Visits. **Epilepsia**, Vol. 21, p.155–162.
- Wettergreen, S. A., Sheth, S., Malveaux, J. 2016. Effects of The Addition of Acarbose to Insulin and Non-Insulin Regimens in Veterans with Type 2 Diabetes Mellitus. **Pharmacy Practice**, Vol.14 No.4, p.832.
- World Health Organization. 2003. **Adherence to Long-Term Therapies: Evidence for Action**. Geneva : World Health Organization.



- World Health Organization. 2003. **Safety of Medicines a Guide To Detecting and Reporting Adverse Drug.**
- Wu, P.-H., Yang, C.-Y., Yao, Z.-L., Lin, W.-Z., Wu, L.-W., & Chang, C.-C., 2010. Relationship of Blood Pressure Control and Hospitalization Risk to Medication Adherence Among Patients With Hypertension in Taiwan. **American Journal of Hypertension**, Vol. 23 No. 2, p. 155–160.
- Wulandari, N., Andrajati, R., & Supardi, S. 2016. Faktor Risiko Umur Lansia terhadap Kejadian Reaksi Obat yang Tidak Dikehendaki pada Pasien Hipertensi, Diabetes, Dislipidemia di Tiga Puskesmas di Kota Depok. **Jurnal Kefarmasian Indonesia**, Vol. 6 No. 1, p. 60–67.
- Xu, W.L., von Strauss, E., Qiu, C.X., Winblad, B., Fratiglioni, L., 2009. Uncontrolled Diabetes Increases The Risk of Alzheimer's Disease: A Populationbased Cohort Study. **Diabetologia**, Vol. 52 No. 6, p.1031–1039
- Yap, A. F., Thirumoorthy, T., & Kwan, Y. H., 2016. Systematic Review of The Barriers Affecting Medication Adherence in Older Adults. **Geriatrics and Gerontology International**, Vol. 16 No. 10, p. 1093–1101.
- Yau, R.K., Strotmeyer, E.S., Resnick, H.E. 2013. Diabetes and Risk of Hospitalized Injury Among Older Adults. **Diabetes Care**, Vol. 36 No. 12, p. 3985–91.
- Young, E.E., Okafor, C.N., Okwara, C.C. 2016. Diabetes mellitus, Associated Co-Morbidities and Complications - A Review. **Journal of Medicine and Medical Sciences**, Vol. 7 No. 3, p.47-55.
- Yulistiani., Suharjono., Hasmono, D., Khotib, J., Sumarno., Rahmadi, M., Sidharta, B., 2008. Identifikasi Problema Obat dalam Pharmaceutical Care. **Jurnal Farmasi Indonesia**, Vol.4 No.1, p.1-7.
- Zammit, N.N., Frier, B.M., 2005. Hypoglycemia in Type 2 Diabetes: Pathophysiology, Frequency, and Effects of Different Treatment Modalities. **Diabetes Care**, Vol. 28 No.12, p.2948–2961.
- Zelko, E., Klemenc-ketis, Z., & Tusek-bunc, K., 2016. Medication Adherence In Elderly With Polypharmacy Living At Home : A Systematic Review of Existing Studies. **Materia Sociomedica**, Vol. 28 No. 2, p.129–132.