

## DAFTAR PUSTAKA

- Angraini, NE & Hendrati, LY 2014, *Hubungan obesitas dan faktor-faktor pada individu dengan kejadian osteoarthritis genu*, Jurnal Berkala Epidemiologi, vol. 2, no. 1, hlm. 93-104, diakses 9 April 2019. <https://e-journal.unair.ac.id/JBE/article/view/165/35>
- Artiyaningrum, B & Azam, M 2016, *Faktor-faktor yang berhubungan dengan kejadian hipertensi tidak terkontrol pada penderita yang melakukan pemeriksaan rutin*, Public Health Perspective Journal, vol. 1, no. 1, hlm. 12-20, diakses 2 Januari 2019. <http://journal.unnes.ac.id/sju/index.php/phpj>
- Astutik, FH, Ali, S & Hairuddin, H 2014, *Hubungan Kendali Glukosa Darah dengan Osteoarthritis Lutut pada Pasien DM di RSD Dr. Soebandi*, Pustaka Kesehatan, vol. 2, no. 2, hlm. 221 – 225, diakses 22 November 2018. <https://jurnal.unej.ac.id/index.php/JPK/article/view/1152>
- Baker-LePain, JC & Lane, NE 2010, *Relationship between joint shape and the development of osteoarthritis*, Current Opinion in Rheumatology, vol. 22, no. 5, pp. 538-543, diakses 22 November 2018. <https://www.ncbi.nlm.nih.gov/pubmed/20644480>
- Bitton, R 2009, *The economic burden of osteoarthritis*, The American journal of managed care, vol. 15, no. 8, pp s230 - s235, diakses 28 September 2018. <https://www.ncbi.nlm.nih.gov/pubmed/19817509>
- Blagojevic, M, Jinks, C, Jeffery, A & Jordan, KP 2010, *Risk factors for onset of osteoarthritis of the knee in older adults: a systematic review and meta-analysis*, Osteoarthritis Research Society International, Vol. 18, pp. 24-33, diakses 22 November 2018. <https://www.ncbi.nlm.nih.gov/pubmed/19751691>
- Blanco, FJ, Rego, I & Ruiz-Romero, C 2011, *The Role of Mitochondria in Osteoarthritis*, Nature Reviews Rheumatology, vol. 7, no. 3, pp. 161-169, diakses 22 November 2018. <https://www.ncbi.nlm.nih.gov/pubmed/21200395>
- Budiman, BE 2016, *Hubungan Kejadian Osteoarthritis Lutut Dengan Diabetes Melitus Tipe 2 di RSUP H. Adam Malik dan RSUD Dr. Pirngadi Medan*, Repositori Institusi Universitas Sumatera Utara, Medan, diakses 13 Oktober 2018. <http://repository.usu.ac.id/handle/123456789/65975>

- Courties, A & Sellam, J 2016, *Osteoarthritis and type 2 diabetes mellitus: What are the links?*, Diabetes research and clinical practice, vol. 122, pp 198-206, diakses 1 Maret 2019.  
<https://www.ncbi.nlm.nih.gov/pubmed/27889689>
- Dahlan, MS 2012, *Analisis Multivariat Regresi Logistik*, Epidemiologi Indonesia, Jakarta.
- Dahlan, MS 2005, *Besar Sampel dalam Penelitian Kedokteran dan Kesehatan*, Arkans, Jakarta.
- Desphande, BR, Katz, JN, Solomon, DH, Yelin, EH, Hunter, DJ, Messier, SP, Suter, LG & Losina E 2016, *Number Of Persons With Symptomatic Knee Osteoarthritis In The US: Impact Of Race And Ethnicity, Age, Sex, And Obesity*. Arthritis Care & Research, Vol. 68, No. 12, pp. 1743-1750, diakses.
- Deu, RP, Mogi, TI & Angliadi 2014, *Gambaran Kejadian nyeri lutut pada perawat di Poliklinik Rawat Jalan BLU RSUP. Prof. DR. R. Kandou Manado*, Jurnal E-Clinic, vol. 2, no. 1, hlm. 1-5, diakses 20 November 2018.  
<https://ejournal.unsrat.ac.id/index.php/eclinic/article/view/3859/3374>
- Dieppe, P & Blom, A 2017, *Apley & Solomon's: System Of Orthopaedics And Trauma*, CRC Press, Taylor & Francis Group, Boca Raton.
- Dieppe & Lohmander 2005, *Pathogenesis and management of pain in osteoarthritis*, The Lancet, vol. 265, no. 9463, pp 965-973, diakses 15 Januari 2019.  
<https://www.ncbi.nlm.nih.gov/pubmed/15766999>
- Dorland, WAN 2011, *Kamus Saku Kedokteran Dorland*, EGC, Jakarta.
- Drake, RL, Vogl, AW & Mitchell, AWM 2014, *Gray: Dasar-Dasar Anatomi*, Elsevier, Singapura.
- Eymard, F, Parsons, C, Edwards, MH, Petit-Dop, F, Reginster, JY, Bruyère, O, Richette, P, Cooper, C & Chevalier, C 2015, *Diabetes is a Risk Factor for Knee Osteoarthritis Progression*, Osteoarthritis and Cartilage, vol. 23, pp. 851-859, diakses 11 Januari 2019.  
[https://www.oarsijournal.com/article/S1063-4584\(15\)00026-6/pdf](https://www.oarsijournal.com/article/S1063-4584(15)00026-6/pdf)
- Felson, DT 2015, *Harrison's Principles of Internal Medicine*, Mc Graw Hill Education, United States.
- Felson, DT, Goggins, J, Niu, J, Zhang, Y & Hunter DJ 2004, *The Effect Of Body Weight On Progression Of Knee Osteoarthritis Is Terikat On Alignment*,

- Arthritis and Rheumatism, vol. 50, no. 12, p. 3904-3905, diakses 22 November 2018.  
<https://www.ncbi.nlm.nih.gov/pubmed/15593215>
- Hame, SL & Alexander, RA 2013, *Knee Osteoarthritis in Women*, Current Reviews in Musculoskeletal Medicine, vol. 6, no. 2, pp. 182-187, diakses 16 Mei 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3702776/>
- Hafizh, M & Ajoie, T 2015, *Gambaran Kualitas Hidup Dan Tingkat Kecemasan Pasien Osteoarthritis Lutut Di Instalasi Rehabilitasi Medik RSUP DR. Kariadi Semarang*, Media Medika Muda, vol. 4, No. 4, hlm. 1252-1260, diakses 20 November 2018. <http://eprints.undip.ac.id/46215/>
- Heidari, B 2011, *Knee osteoarthritis prevalence, risk factors, pathogenesis and features: Part I*, Caspian journal of internal medicine, vol. 2, no. 2, pp 205-212, diakses 11 Januari 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3766936/>
- Hootman, JM & Helmick CG 2006, *Projections of US prevalence of arthritis and associated activity limitations*, Arthritis and rheumatism, vol. 54, no. 1, pp 226-229, diakses 22 November 2018.  
<https://www.ncbi.nlm.nih.gov/pubmed/16385518>
- Iannone, F & Lapadula, G 2010, *Obesity And Inflammation--Targets For OA Therapy*, Current drug targets, vol. 11, no. 5, p. 586-598, diakses 20 Mei 2019. <https://www.ncbi.nlm.nih.gov/pubmed/20199391>
- Imbawan, IGNE, Putra, TR & Kambayana, G 2011, *Korelasi Kadar Matrix Metalloproteinases 3 (MMP-3) Dengan Derajat Beratnya Osteoarthritis Lutut*, Journal of Internal Medicine, vol. 12, no. 3, hlm. 181-192, diakses 19 Juli 2019. <http://garuda.ristekdikti.go.id/documents/detail/13257>
- Irsyad, F & Majdawati, A 2017, *Hubungan Pekerjaan Dengan Derajat Pada Gambaran Radiologis Osteoarthritis Genu Menurut Kellgren Dan Lawrence*, UMY Repository, Universitas Muhammadiyah Yogyakarta, diakses 20 November 2018.  
<http://repository.umy.ac.id/handle/123456789/17477>
- Junker, S, Krumbholz, G, Frommer, KW, Rehart, S, Steinmeyer, J, Rickert, M, Schett, G, Müller-Ladner, U & Neumann, E 2016, *Differentiation of osteophyte types in osteoarthritis – proposal of a histological classification*, Joint Bone Spine, vol. 83, no. 1, pp. 63-67, diakses 8 Mei 2019. <https://www.ncbi.nlm.nih.gov/pubmed/26076655>
- Kaur, R, Ghosh, A & Singh, A 2018, *Prevalence of Knee Osteoarthritis and Its Determinants in 30-60 Years Old Woman of Gurdaspur, Punjab*,

International Journal of Medical Science and Public Health Online, vol. 7, no. 10, pp. 825-830, diakses 11 Januari 2019.

<https://www.ejmanager.com/mnstemps/67/671526533864.pdf?t=1554139779>

Khairani, Y, Husni, E, dan Aryanti 2013, Hubungan umur, Jenis Kelamin Dan Aktivitas Fisik Dengan Kejadian Osteoarthritis Lutut. Artikel Ilmiah. Program Studi Pendidikan Dokter Falkutas Dan Ilmu Kesehatan Universitas Jambi, Jambi, diakses 5 April 2019.

<https://media.neliti.com/media/publications/70932-ID-hubungan-umur-jenis-kelamin-imt-dan-akti.pdf>

Kim, HS, Shin, JS, Lee, J, Lee, YJ, Kim, M, Bae, YH, Park, KB, Lee, EJ, Kim, JH & Ha, In 2016, *Association between Knee Osteoarthritis, Cardiovascular Risk Factors, and the Framingham Risk Score in South Koreans: A Cross-Sectional Study*, PLOS ONE, vol. 11, no. 10, 00. 1-13, diakses 16 Desember 2018.

<https://www.ncbi.nlm.nih.gov/pubmed/27764239>

Kohn, MD, Sassoon, AA & Fernando, ND 2016, *Classification in Brief: Kellgren-Lawrence Classification of Osteoarthritis*, Clinical Orthopaedics and Related Research, vol. 474, no. 8, pp. 1886-1893, diakses 12 Januari 2019.

<https://link.springer.com/article/10.1007/s11999-016-4732-4>

Kurniawan, R & Faesol, A 2016, *Usia dengan Osteoarthritis Lutut Ditinjau Dari Gambaran Radiologi Di RS PKU Muhammadiyah Yogyakarta*, Universitas Muhammadiyah Yogyakarta, Yogyakarta, diakses 19 Juli 2019.

<http://repository.umy.ac.id/handle/123456789/8605>

Lestari, APE 2018, *Skripsi Hubungan Sindrom Metabolik Dengan Kejadian Osteoarthritis Lutut pada Pasien Osteoarthritis Di RSPAD Gatot Soebroto Periode 2015 – 2017*, Universitas Pembangunan Nasional “Veteran” Jakarta.

Litwic, A, Edwards, MH, Dennison, EM & Cooper, C 2013, *Epidemiology and Burden of Osteoarthritis*, British Medical Bulletin, vol. 105, no. 1, pp. 185-199, diakses 20 April 2019.

<https://academic.oup.com/bmb/article/105/1/185/271633>

Loeser, RF 2011, *Aging and osteoarthritis*, Current Opinion in Rheumatology, vol. 23, no. 5, pp. 492-496, diakses 22 November 2018.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3377970/>

Loeser, RF, Yammani, RR, Carlson, CS, Chen, H, Cole, A, Im, HJ, Bursch, LS & Yan SD 2005, *Articular chondrocytes express the receptor for advanced glycation end products: Potential role in osteoarthritis*, Arthritis and rheumatism, vol. 52, no. 8, pp 2376-2385, diakses 22 November 2018.

<https://www.ncbi.nlm.nih.gov/pubmed/16052547>

- Loeser, RF 2010, *Age-Related Changes In The Musculoskeletal System And The Development Of Osteoarthritis*, Clinics in Geriatric Medicine, vol. 26, no. 3, pp. 371-386, diakses 201 April 2019.  
[https://www.geriatric.theclinics.com/article/S0749-0690\(10\)00027-3/pdf](https://www.geriatric.theclinics.com/article/S0749-0690(10)00027-3/pdf)
- Magliano, M 2008, *Obesity and Arthritis*, British Menopause Society, vol. 14, no. 4, pp. 149-154, diakses 4 April 2019.  
<https://journals.sagepub.com/doi/abs/10.1258/mi.2008.008018>
- Maharani, EP 2007, *Faktor-Faktor Risiko Osteoarthritis Lutut (Studi Kasus di Rumah Sakit Dokter Kariadi Semarang)*, Universitas Diponegoro, Semarang, diakses 28 Oktober 2018.  
[http://eprints.undip.ac.id/17308/1/Eka\\_Pratiwi\\_Maharani.pdf](http://eprints.undip.ac.id/17308/1/Eka_Pratiwi_Maharani.pdf)
- Mappaompo, MA 2010, *Obesitas dan Olahraga*, Jurnal ILARA, vol. 1, no. 1, hlm. 10 – 16, diakses 7 Juli 2019.  
<http://digilib.unm.ac.id/files/disk1/7/universitas%20negeri%20makassardigilib-unm-muhammadad-319-1-2.adam.pdf>
- Miller, RE, Miller, RJ & Malfait, AM 2014, *Osteoarthritis joint pain: The cytokine connection*, Cytokine, vol. 70, pp 185-193, diakses 3 Maret 2019.  
<https://www.sciencedirect.com/science/article/abs/pii/S1043466614002063>
- Mora, JC, Przkora, R & Cruz-Almeida, Y 2018, *Knee Osteoarthritis: Pathophysiology and Current Treatment Modalities*, Journal of Pain Research, vol. 11, pp. 2189-2196, diakses 9 Juni 2019.  
<https://www.ncbi.nlm.nih.gov/pubmed/30323653>
- Morović-Vergles, J, Salamon, L, Marasović-Krstulović D, Kehler T, Sakić D, Badovinac O, Vlák T, Novak S, Stiglic-Rogoznica N, Hanih M, Bedeković D, Grazio S, Kadojić M, Milas-Ahić J, Prus V, Stamenković D, Sošo D, Anić B, Babić-Naglić D & Gamulin S 2013, *Is the prevalence of arterial hypertension in rheumatoid arthritis and osteoarthritis associated with disease?*, Rheumatology International, vol. 33, no. 5, pp. 1185-1192, diakses 19 Mei 2019.  
<https://www.ncbi.nlm.nih.gov/pubmed/22965673>
- Mündermann, A, Dyrby, CO & Andriacchi, TP 2005, *Secondary gait changes in patients with medial compartment knee osteoarthritis: Increased load at the ankle, knee, and hip during walking*, Arthritis and Rheumatology, vol. 52, no. 9, pp. 2835-2844, diakses 11 Januari 2019.  
<https://www.ncbi.nlm.nih.gov/pubmed/16145666>
- Murphy, L & Helmick, CG 2012, *The impact of osteoarthritis in the United States: a population-health perspective*, American Journal of Nursing, Vol. 112, no. 3, pp S13–S19, diakses 22 November 2018.  
<https://insights.ovid.com/pubmed?pmid=22373741>

- Mutiwara, E, Najirman & Afriwardi 2016, *Hubungan IMT Dengan Derajat Kerusakan Sendi Pada Pasien Osteoarthritis Lutut Di RSUD Dr. M. Djamil Padang*, Jurnal Kesehatan Andalas, vol. 5, no. 2, hlm. 376-380, diakses 17 Februari 2019.  
<http://jurnal.fk.unand.ac.id/index.php/jka/article/view/525/430>
- Nakamura, K, Fuster, JJ & Walsh, K 2014, *Adipokines: A link between obesity and cardiovascular disease*, Journal of Cardiology, vol. 63, no. 4, pp. 250-259, diakses 19 Mei 2019.  
<https://www.ncbi.nlm.nih.gov/pubmed/24355497>
- Nieves-Plaza, M, Castro-Santana, L, Font, Y, Mayor, A & Vila, L 2013, *Association of Hand or Knee Osteoarthritis With Diabetes Mellitus in a Population of Hispanics From Puerto Rico*, Journal of Clinical Rheumatology, vol. 19, no. 1, pp. 1-6, diakses 19 Mei 2019.  
<https://www.ncbi.nlm.nih.gov/pubmed/23319016>
- Niu, J, Clancy, M, Aliabadi, P, Vasani, R & Felson, DT 2017, *The Metabolic Syndrome, Its Components And Knee Osteoarthritis (OA): The Framingham OA Study*, Arthritis Rheumatology, vol. 69, no. 6, pp 1194-1203, diakses 21 September 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5449217/>
- Njoto, I 2017, *Epidemiologi, Pathogenesis and Risk Factor of Osteoarthritis*, Jurnal Ilmiah Kedokteran Wijaya Kusuma, vol. 2, no. 1, hlm. 48-57, diakses 9 Maret 2019.  
<http://download.garuda.ristekdikti.go.id/article.php?article=490114&val=10001&title=EPIDEMIOLOGI,%20PATHOGENESIS%20AND%20RISK%20FACTOR%20OF%20OSTEOARTHRITIS>
- Nugraha, AS, Widyatmoko, S & Jatmiko, SW 2015, *Hubungan Obesitas Dengan Terjadinya Osteoarthritis Lutut Pada Lansia Kecamatan Laweyan Surakarta*, Biomedika, vol. 7, no. 1, hlm. 15-18, diakses 5 Mei 2019.  
<http://journals.ums.ac.id/index.php/biomedika/article/view/1587>
- Paerunan, C, Gessal, J & Senkey, L 2019, *Hubungan Antara Usia Dan Derajat Kerusakan Sendi Pada Pasien Osteoarthritis Lutut Di Instalasi Rehabilitasi Medik RSUD. Prof. DR. R. D. Kandou Manado Periode Januari – Juni 2018*, Jurnal Medik dan Rehabilitasi, vol. 1, no. 3, hlm 1 – 4, diakses 15 Mei 2019.  
<https://ejournal.unsrat.ac.id/index.php/jmr/article/view/22510/22201>
- Peni 2014, *Hubungan IMT (IMT) Dengan Nyeri, Kekakuan Sendi & Aktivitas Fisik Pada Pasien Osteoarthritis Lutut Di Poliklinik Bedah Ortopedi RSUD Dr. Soedarso Pontianak Tahun 2013*, Universitas Tanjungpura Pontianak, diakses 11 Januari 2019.  
<http://jurnal.untan.ac.id/index.php/jfk/article/view/5162>

- Pratiwi, AI 2015, *Diagnosis and Treatment Osteoarthritis*, University of Lampung, vol. 4, no. 4, hlm. 10-17, diakses 1 April 2019.  
<http://juke.kedokteran.unila.ac.id/index.php/majority/article/viewFile/572/576>
- Rahmadiyah, N, Tresnasari, C & Alie IR 2016, *Hubungan Usia dan Jenis Kelamin dengan Derajat Keparahan Osteoarthritis Lutut di RS Al-Islam Bandung Periode 1 Januari 2013 – 31 Desember 2015*, Universitas Islam Bandung, vol. 2, no. 2, hlm. 764-772, diakses 9 Maret 2019.  
<http://karyailmiah.unisba.ac.id/index.php/dokter/article/view/4809>
- Rasjad, C 2012, *Pengantar Ilmu Bedah Ortopedi*, Yarsif Watampone, Jakarta.
- Rasjad, C, Reksoprodjo, S, Hadi, SA, Yurianto, H, Roeshadi, D, Ferdiansyah, & Irianto, KA 2010, *Buku Ajar Ilmu Bedah Sjamsuhidajat-de Jong*, EGC, Jakarta.
- Riset Kesehatan Dasar 2018 : RISKESDAS, Balitbang Kemenkes RI, Jakarta terakhir diakses 9 April 2019.  
[http://www.depkes.go.id/resources/download/infoterkini/materi\\_rakorpop\\_2018/Hasil%20Riskasdas%202018.pdf](http://www.depkes.go.id/resources/download/infoterkini/materi_rakorpop_2018/Hasil%20Riskasdas%202018.pdf)
- Rogers-Soeder, TS, Lane, NE, Walimbe, M, Schwartz, AV, Tolstykh, I, Felson DT, Lewis, CE, Segal, NA & Nevitt MC 2018, Association of diabetes mellitus and biomarkers of abnormal glucose metabolism with incident radiographic knee osteoarthritis, *Arthritis Care and Research*, pp. 1 – 28, diakses 22 November 2018.  
<https://www.ncbi.nlm.nih.gov/pubmed/30418707>
- Saavedra, MA, Navarro-Zarza, JE, Villaseñor-Ovies, P, Canoso, JJ, Vargas, A, Chiapas-Gasca, K, Hernández-Díaz, C & Kalish, RA 2012. *Clinical Anatomy of the Knee*, *Reumatología Clínica*, vol. 8, no. S2, pp. 39–45, diakses 9 Juni 2019.  
<https://www.reumatologiaclinica.org/en-clinical-anatomy-knee-articulo-S1699258X12002409>
- Schett, G1, Kleyer, A, Perricone, C, Sahinbegovic, E, Iagnocco, A, Zwerina, J, Lorenzini, R, Aschenbrenner, F, Berenbaum, F, D'Agostino, MA, Willeit, J & Kiechl, S 2013, *Diabetes Is An Bebas Predictor For Severe Osteoarthritis: Results From A Longitudinal Cohort Study*, *Diabetes Care*, vol. 36, no. 2, p. 403-409, diakses 14 November 2018.  
<https://www.ncbi.nlm.nih.gov/pubmed/23002084>
- Seo, P, Hakim, A, Clunie, G & Haq, I 2013, *Oxford American Handbook Of Rheumatology*, Oxford University Press, New York.

- Seok, H, Choi, SJ, Yoon, JH, Song, GG, Won, JU, Kim, JH, Roh, H & Jung JH 2017, *The Association Between Osteoarthritis and Occupational Clusters in the Korean Population: A Nationwide Study*, PLoS One, vol. 12, no. 1, pp. 1-10, diakses 11 Januari 2019.  
<https://www.ncbi.nlm.nih.gov/pubmed/28099527>
- Setiawan, M 2009, *Kelainan Persendian (Osteoarthritis) Sebagai Komplikasi Kronis Diabetes Melitus Tipe II Dan Hubungannya Dengan Kendali Glukosa Darah*, Sainika Medika, vol. 5, no. 1, hlm. 1-9.  
<http://ejournal.umm.ac.id/index.php/sainmed/article/view/1023/4582>
- Sezer, I, Illeez, OG, Tuna, SD & Balci, N 2010, *The Relationship Between Knee Osteoarthritis and Osteoporosis*, The Eurasian Journal of Medicine, vol. 42, no. 3, pp. 124-127, diakses 16 Juni 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4261263/>
- Sharma L & Berenbaum, F 2007, *Osteoarthritis A Companion to Rheumatology*, Mosby Elsevier, Philadelphia.
- Smith, JJ, Ross, MW & Smith RK 2006, *Anabolic effects of acellular bone marrow, platelet rich plasma, and serum on equine suspensory ligament fibroblasts in vitro*, Veterinary and comparative orthopaedics and traumatology, vol. 19, no. 1, pp 43-47, diakses 22 November 2018.  
<https://www.ncbi.nlm.nih.gov/pubmed/16594543>
- Smith, MD 2011, *The Normal Synovium*, The open rheumatology journal, vol. 5, pp 100-106, diakses 22 November 2018.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3263506/>
- Sumantri 2015, *Metodologi Penelitian Kesehatan*, Prenada Media, Jakarta.
- Soeryadi, A, Gessal, J & Senkey, LS 2017, *Gambaran Faktor Risiko Penderita Osteoarthritis Lutut di Instalasi Rehabilitasi Medik RSUP. Prof. Dr. R. D. Kandou Manado*, Jurnal E-Clinic, vol. 5, no. 2, hlm. 267-273 diakses 7 Juli 2019.  
<https://ejournal.unsrat.ac.id/index.php/eclinic/article/view/18540/18067>
- Supartono, B 2016, *Penyembuhan Gangguan Sendi Lutut*, RS Al-Fauzan Jakarta Islamic Hospital, Jakarta.
- Syahdrajat, T 2017, *Panduan Penelitian Untuk Skripsi Kedokteran dan Kesehatan*, Jakarta.
- Villafañe, JH 2018. *Exercise and osteoarthritis: an update*. Journal of Exercise Rehabilitation, vol. 14, no. 4, pp. 538–539, diakses 19 Mei 2019.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6165969/>



- Vincent, KR & Vincent, HK 2012, *Resistance Exercise for Knee Osteoarthritis*, PM&R, vol. 4, no. 5, pp. S45-S52, diakses 19 Mei 2019.  
<https://www.ncbi.nlm.nih.gov/pubmed/22632702>
- Vohra, I, Singh, A, Ali, S, Verma, NS, Kumar, A & Katiyar, V 2015, *Correlation of Hypertension with the Severity Osteoarthritis of Knee*, International Journal of Biomedical Research, vol. 6, no. 4, pp. 238-241 diakses 7 Juli 2019.  
<https://pdfs.semanticscholar.org/1754/efe5729323d8605a4972e55e1737e4cee594.pdf>
- Wahyuningsih, NAS 2009, *Hubungan Obesitas dengan Osteoarthritis Lutut pada Lansia Kelurahan Puncangsawit Kecamatan Jebres Surakarta*, Universitas Sebelas Maret, Surakarta, diakses 7 Juli 2019.  
<https://core.ac.uk/download/pdf/12352330.pdf>
- Wallace, IJ, Worthington, S, Felson, DT, Jurmain, RD, Wren, KT, Maijanen, H, Woods, RJ & Lieberman, DE 2017, *Knee osteoarthritis has doubled in prevalence since the mid-20th century*, Proceedings of the National Academy of Sciences, vol. 114, no. 35, pp. 9332–9336, diakses 22 November 2018.  
<https://www.pnas.org/content/114/35/9332>
- Wijayanti, L 2017, *Hubungan Hipertensi Dengan Tingkat Keparahan Osteoarthritis*, UMY Repository, Yogyakarta, diakses 20 Mei 2019.  
<http://repository.umy.ac.id/handle/123456789/10696>
- Williams, MF, London, DA, Husni, EM, Navaneethan S & Kashyap, SR 2016, *Type 2 Diabetes and Osteoarthritis: A Systematic Review and Meta-analysis*, Journal of Diabetes and Its Complications, vol. 30, no. 5, pp. 944-950, diakses 22 November 2018.  
<https://www.ncbi.nlm.nih.gov/pubmed/27114387>
- World Health Organization (WHO), 2019, *Department of Chronic Diseases and Health Promotion*, diakses tanggal 1 April 2019.  
<http://www.who.int/chp/topics/rheumatic/en/> diakses 15 Mei 2019
- Yanuary, M 2014, *Hubungan Antara Faktor Risiko Osteoarthritis Dengan Nyeri, Disabilitas, Dan Berat Ringannya Osteoarthritis*, Univeristas Diponegoro, Semarang, diakses 20 Mei 2019.  
[http://eprints.undip.ac.id/44826/1/Maya\\_Yanuary\\_22010110110125\\_Bab\\_0KTI.pdf](http://eprints.undip.ac.id/44826/1/Maya_Yanuary_22010110110125_Bab_0KTI.pdf)
- Zhang, YM, Wang, J & Liu XG 2017, *Association Between Hypertension And Risk Of Knee Osteoarthritis A Meta-Analysis Of Observational Studies*, Medicine Open, pp. 96-32, diakses 22 November 2018.  
<https://www.ncbi.nlm.nih.gov/pubmed/28796041>

Zheng & Chen 2015, *Body mass index and risk of knee osteoarthritis: systematic review and meta-analysis of prospective studies*, *BMJ Open*, vol. 5, no. 12, pp. e007568, diakses 22 November 2018.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4679914/>

Zhou, ZY, Liu, YK, Chen, HL & Liu, F 2014, *Body Mass Index and Knee Osteoarthritis Risk: A Dose-Response Meta-Analysis*, *Obesity Silver Spring*, vol. 22, no. 10, pp. 2180-2185, diakses 20 Mei 2019.

<https://www.ncbi.nlm.nih.gov/pubmed/24990315>

