DAFTAR PUSTAKA

[1] J. Cauraugh, K. Light, S. Kim, M. Thigpen, and A. Behrman, "Chronic motor dysfunction after stroke: Recovering wrist and finger extension by electromyography-triggered neuromuscular stimulation," *Stroke*, vol. 31, no. 6, pp. 1360–1364, 2000, doi: 10.1161/01.STR.31.6.1360.

[2] Z. Pineda-Rico, J. A. S. de Lucio, F. J. M. Lopez, and P. Cruz, "2121. Design of an exoskeleton for upper limb robot-assisted rehabilitation based on co-simulation," *J. Vibroengineering*, vol. 18, no. 5, pp. 3269–3278, 2016, doi: 10.21595/jve.2016.16857.

[3] Kemenkes RI, "Laporan Nasional Hasil Riset Kesehatan Dasar (Riskesdas) Indonesia tahun 2018," *Riset Kesehatan Dasar 2018*. p. 166, 2018.

[4] A. D. Setyawan, A. Rosita, and N. Yunitasari, "Pengaruh Pemberian Terapi Rom (Range of Motion) Terhadap Penyembuhan Penyakit Stroke," *Glob. Heal. Sci.*, vol. 2, no. 2, pp. 87–90, 2017, doi: 10.1177/0883073818776157.

[5] C. N. Tseng, C. C. H. Chen, S. C. Wu, and L. C. Lin, "Effects of a range-of-motion exercise programme," *J. Adv. Nurs.*, vol. 57, no. 2, pp. 181–191, 2007, doi: 10.1111/j.1365-2648.2006.04078.x.

[6] D. M. Bakara and S. Warsito, "Latihan Range of

Motion (Rom) Pasif Terhadap Rentang Sendi Pasien Pasca Stroke," *Idea Nurs. J.*, vol. 7, no. 2, pp. 12–18, 2016.

[7]   Z.-S. Hosseini, H. Peyrovi, and M. Gohari, "The Effect of Early Passive Range of Motion Exercise on Motor Function of People with Stroke: a Randomized Controlled Trial," *J. Caring Sci.*, vol. 8, no. 1, pp. 39–44, 2019, doi: 10.15171/jcs.2019.006.

[8]   A. Gupta, A. Singh, V. Verma, and A. K. Mondal, "Developments and clinical evaluations of robotic exoskeleton technology for human upper-limb rehabilitation," *Adv. Robot.*, vol. 0, no. 0, pp. 1–18, 2020, doi: 10.1080/01691864.2020.1749926.

[9]   S. Muthiah, Hendrik, and Suharto, "Penatalaksanaan Fisioterapi Pada Gangguan Fungsional Berjalan Akibat Fraktur 1/3 Distal Cruris Dextra Post Pemasangan Plate And Screw Di RSUP Dr. Wahidin Sudirohusodo Makassar," vol. XI, no. 1, pp. 20–31, 2019.

[10]   H. Lestari, D. N. Izzhati, N. Rachmat, D. Setyawan, E. Saputra, and R. Ismail, "Pengukuran Jangkauan Gerak Pada Lutut Orang Indonesia Sebagai Data Awal Perancangan Kaki Tiruan Atas Lutut," *Snst*, pp. 64–69, 2015, [Online]. Available: http://www.unwahas.ac.id/publikasiilmiah/index.php/PROSIDING_SNST_FT/article/viewFile/1142/1248.

[11]   S. M. Huang, P. Y. Gi, and P. Y. Wu, "A design of wearable goniometers for measuring carpal angular

movement," *Proc. 2018 IEEE Int. Conf. Adv. Manuf. ICAM 2018*, pp. 1–4, 2019, doi: 10.1109/AMCON.2018.8615058.

[12] T. PERKASA and H. H. RACHMAT, "Perancangan Alat Ukur Sudut Tekuk Lutut Wireless menggunakan Sensor Gyroscope berbasis ATMega 328 dan ATMega 2560," *ELKOMIKA J. Tek. Energi Elektr. Tek. Telekomun. Tek. Elektron.*, vol. 5, no. 1, p. 30, 2018, doi: 10.26760/elkomika.v5i1.30.

[13] D. P. Ferris, "The exoskeletons are here," *J. Neuroeng. Rehabil.*, vol. 6, no. 1, pp. 6–9, 2009, doi: 10.1186/1743-0003-6-17.

[14] J. Tao and S. Yu, "Developing conceptual pss models of upper limb exoskeleton based post-stroke rehabilitation in China," *Procedia CIRP*, vol. 80, pp. 750–755, 2019, doi: 10.1016/j.procir.2019.01.031.

[15] C. G. McDonald, T. A. Dennis, and M. K. O'Malley, "Characterization of surface electromyography patterns of healthy and incomplete spinal cord injury subjects interacting with an upper-extremity exoskeleton," *IEEE Int. Conf. Rehabil. Robot.*, pp. 164–169, 2017, doi: 10.1109/ICORR.2017.8009240.

[16] W. Wendong, L. Hanhao, X. Menghan, C. Yang, Y. Xiaoqing, and M. Xing, "Design and verification of a human – robot interaction system for upper limb exoskeleton rehabilitation," vol. 79, pp. 19–25, 2020, doi: 10.1016/j.medengphy.2020.01.016.

[17] J. Lanini, T. Tsuji, P. Wolf, R. Riener, and D. Novak, "Teleoperation of two six-degree-of-freedom arm rehabilitation exoskeletons," *IEEE Int. Conf. Rehabil. Robot.*, vol. 2015-Septe, pp. 514–519, 2015, doi: 10.1109/ICORR.2015.7281251.

[18] W. W. Wang and L. C. Fu, "Mirror therapy with an exoskeleton upper-limb robot based on IMU measurement system," *MeMeA 2011 - 2011 IEEE Int. Symp. Med. Meas. Appl. Proc.*, pp. 370–375, 2011, doi: 10.1109/MeMeA.2011.5966732.

[19] Y. Ganesan, S. Gobee, and V. Durairajah, "Development of an Upper Limb Exoskeleton for Rehabilitation with Feedback from EMG and IMU Sensor," *Procedia Comput. Sci.*, vol. 76, no. Iris, pp. 53–59, 2015, doi: 10.1016/j.procs.2015.12.275.

[20] Q. Meng *et al.*, "Pilot Study of a Powered Exoskeleton for Upper Limb Rehabilitation Based on the Wheelchair," *Biomed Res. Int.*, vol. 2019, 2019, doi: 10.1155/2019/9627438.

[21] I. Bisio, C. Garibotto, F. Lavagetto, and A. Sciarrone, "When eHealth Meets IoT : A Smart Wireless System for Post-Stroke Home Rehabilitation," *IEEE Wirel. Commun.*, vol. 26, no. December, pp. 24–29, 2019, doi: 10.1109/MWC.001.1900125.

[22] U. Limb, "The A.R.M," *Bmj*, vol. 2, no. 5038, pp. 206–207, 1957, doi: 10.1136/bmj.2.5038.206.

[23] J. Paterson, "Exercises for core stabilization and

efficient movement," *Teach. Pilates Postural Faults, Illn. Inj.*, pp. 94–172, 2009, doi: 10.1016/b978-0-7506-5647-4.50011-1.

[24] Al-Muqsith, "Anatomi Dan Biomekanika Sendi Dan Pergelangan Tangan," *Anat. Dan Biomekanika Sendi Siku Dan Pergelangan Tangan*, p. 54, 2018.

[25] T. Ashuri, G. Van Bussel, and S. Mieras, "Development and validation of a computational model," *Library (Lond).*, no. March 2012, pp. 77–90, 2013.

[26] A. goleman, daniel; boyatzis, Richard; Mckee and Perdana, *Joint Motion and Muscle Testing*, vol. 53, no. 9. 2018.

[27] D. Copaci, E. Cano, L. Moreno, and D. Blanco, "New Design of a Soft Robotics Wearable Elbow Exoskeleton Based on Shape Memory Alloy Wire Actuators," *Appl. Bionics Biomech.*, vol. 2017, 2017, doi: 10.1155/2017/1605101.

[28] I. ROSIDAWATI, "Standar Operasional Prosedur ROM," vol. 67, no. 6. pp. 14–21, 2007.

[29] E. Rhestifujiayani, E. Huriani, and M. Muharriza, "Comparison of Muscle Strength in Stroke Patients between The Given and Not Given Range of Motion Exercise," *Nurse Media J. Nurs.*, vol. 5, no. 2, p. 88, 2015, doi: 10.14710/nmjn.v5i2.10534.

[30] S. Susanti, S. Susanti, and D. N. BIstara, "Pengaruh Range of Motion (ROM) terhadap Kekuatan Otot pada Pasien Stroke," *J. Kesehat. Vokasional*, vol. 4,

no. 2, p. 112, 2019, doi: 10.22146/jkesvo.44497.

[31] M. Iskandar, Mardiyono, and H. Rumahorbo, "The effectiveness of discharge planning and range of motion (ROM) training in increasing muscle strength of nonhemorrhagic stroke patients," *Glob. Heal. Manag. J.*, vol. 2, no. 1, pp. 9–12, 2018.

[32] V. Nofrel, M. Lukman, and C. W. Mambang Sari, "Pengaruh Latihan Range Of Motion terhadap Peningkatan Kemampuan Melakukan Activity Daily Living pada Penderita Pasca Stroke," *J. Ilm. Univ. Batanghari Jambi*, vol. 20, no. 2, p. 564, 2020, doi: 10.33087/jiubj.v20i2.992.

[33] I. Tavip, Warijan, and S. Joni, "Pengaruh Range of Motion (ROM) Aktif Terhadap Fleksibilitas Sendi Lutut Pada Lanjut Usia," *J. Stud. Keperawatan*, vol. 1, no. 1, pp. 1–4, 2020.

[34] Yuliastati, "Pengaruh Latihan Rentang Gerak Sendi Ekstremitas Bawah Secara Aktif Asistif terhadap Kekuatan Otot dan Luas Gerak Sendi Lutut dan Panggul Pada Anak Tuna Grahita Sedang di Sekolah Luar Biasa C Kota Bogor," Universitas Indonesia, 2011.

[35] D. Abdurachman, D. D. Krismashogi, I. Farindra, and E. Rambung, "Indahnya Seirama Kinesiogi Dalam Anatomi," *Perpust. Natl. Katalog*, no. kinesiologi anatomi, p. 258, 2016.

[36] M. Amirullah, H. Kusuma, and T. Tasripan, "Sistem Peringatana Dini Menggunakan Deteksi Kemiringan Kepala pada Pengemudi Kendaraan

Bermotor yang Mengantuk," *J. Tek. ITS*, vol. 7, no. 2, 2019, doi: 10.12962/j23373539.v7i2.31011.

[37] A. A. Rafiq, W. N. Rohman, and S. D. Riyanto, "Development of a Simple and Low-cost Smartphone Gimbal with MPU-6050 Sensor," *J. Robot. Control*, vol. 1, no. 4, pp. 136–140, 2020, doi: 10.18196/jrc.1428.

[38] A. Wagyana, "Prototipe Modul Praktik untuk Pengembangan Aplikasi Internet of Things (IoT)," *Setrum Sist. Kendali-Tenaga-elektronika-telekomunikasi-komputer*, vol. 8, no. 2, p. 238, 2019, doi: 10.36055/setrum.v8i2.6561.

[39] M. Thowil Afif and I. Ayu Putri Pratiwi, "Analisis Perbandingan Baterai Lithium-Ion, Lithium-Polymer, Lead Acid dan Nickel-Metal Hydride pada Penggunaan Mobil Listrik - Review," *J. Rekayasa Mesin*, vol. 6, no. 2, pp. 95–99, 2015, doi: 10.21776/ub.jrm.2015.006.02.1.

[40] M. A. Gull, S. Bai, and T. Bak, "A review on design of upper limb exoskeletons," *Robotics*, vol. 9, no. 1, pp. 1–35, 2020, doi: 10.3390/robotics9010016.

[41] Z. O. Khokhar, Z. G. Xiao, and C. Menon, "Surface EMG pattern recognition for real-time control of a wrist exoskeleton," *Biomed. Eng. Online*, vol. 9, pp. 1–17, 2010, doi: 10.1186/1475-925X-9-41.