DAFTAR PUSTAKA

[1] "Idf diabetes atlas 10th edition." [Online]. Available: www.diabetesatlas.org

[2] M. Adelita, K. Arto, and M. Deliana, "Kontrol metabolik pada dm tipe-1," *CDK-284*, vol. 47, no. 03, 2020.

[3] C. Hettiarachchi, N. Malagutti, C. Nolan, E. Daskalaki, and H. Suominen, "A reinforcement learning based system for blood glucose control without carbohydrate estimation in type 1 diabetes: In silico validation," *Annual International Conference of the IEEE Engineering in Medicine & Biology Society (EMBC)*, vol. 44, 2022.

[4] D. Christiana, S. Y. Patria, and J. Madarina, "Efektivitas basal-bolus insulin dibandingkan dengan split mix regimen sebagai terapi dm tipe-1," Universitas Gadjah Mada, 2015.

[5] Wisman, C. D. Siregar, and D. Melda, "Pemberian insulin pada diabetes melitus tipe-1," *Sari Pediatri*, vol. 09, no. 01, 2007.

[6] B. T. AAP, N. P. Yati, M. Faizi, N. S. Marzuki, A. G. Moelyo, and F. Soesanti, *KONSENSUS NASIONAL PENGELOLAAN DIABETES MELLITUS TIPE 1*. Badan Penerbit Ikatan Dokter Anak Indonesia, 2015.

[7] J. Bondia, E. Dassau, H. Zisser, R. Calm, J. Vehí, L. Jovanovič, and F. J. Doyle III, "Coordinated basal–bolus infusion for tighter postprandial glucose control in insulin pump therapy," *IEEE*, 2019.

[8] J. B. Jørgensen, D. Boiroux, and Z. Mahmoudi, "An artificial pancreas based on simple control algorithms and physiological insight," *IFAC (International Federation of Automatic Control)*, 2019.

[9] A. Y. B. Sasi1 and M. A. Elmalki, "A fuzzy controller for blood glucose-insulin system," *Journal of Signal and Information Processing*, pp. 111–117, 2013.

[10] I. Fox and J. Wiens, "Reinforcement learning for blood glucose control: Challenges and opportunities," *36 th International Conference on Machine Learning*, 2019.

[11] I. Kurniawan, "Penalaan pengendali fractional order pid dengan menggunakan cross-entropy method," Universitas Gadjah Mada, 2017.

[12] L. Magni, R. D. M, C. Dalla Man, G. De Nicolao, B. Kovatchev, and C. Cobelli, "Model predictive control of glucose concentration in type i diabetic patients: An in silico trial," *Biomedical Signal Processing and Control*, 2009.

[13] Medtronic, *The Basics of Insulin Pump Therapy*. Medtronic Diabetes, 2010. [Online]. Available: www.medtronicdiabetes.com

[14] N. P. Yati, A. N. S. Marzuki, A. G. Moelyo, F. Soesanti, M. Faizi, and B. Tridjaja, "Panduan praktik klinis ikatan dokter anak indonesia," *Diagnosis dan Tata Laksana*, 2017.

[15] A. T. Oommen, J. S. Kumar, and J. S. Issac, "Fuzzy mrac controller for blood glucose-insulin regulation system," *ICIIECS*, 2015.

[16] O. C. Hospital, "When to adjust your child's insulin dose," 2020. [Online]. Available: https://www.childrensomaha.org/department/endocrinology-diabetes/diabetes-patient-education/when-to-adjust-insulin-dose/

[17] I. . S. Committee, *Health informatics–Personal health device communication - Part 10419: Device Specialization–Insulin Pump.* IEEE, 2018.

[18] P. Viroonluecha, E. Egea-Lopez, and J. Santa, "Evaluation of blood glucose level control in type 1 diabetic patients using deep reinforcement learning," *PLOS ONE*, 2022.

[19] J. B. Lee, E. Dassau, D. E. Seborg, and F. J. Doyle, "Model-based personalization scheme of an artificial pancreas for type 1 diabetes applications," *2013 American Control Conference*, 2013.

[20] R. Blanc, H. M. R. Ugalde, P.-Y. Benhamou, G. Charpentier, S. Franc, E. Huneker, E. Villeneuve, and M. Doron, "Modeling the variability of insulin sensitivity for people with type 1 diabetes based on clinical data from an artificial pancreas study," *IEEE*, 2019.

[21] H. Thabit and R. Hovorka, "Coming of age: the artificial pancreas for type 1 diabetes," *Diabetologia*, 2016.

[22] R. Ramli, M. Reddy, and N. Oliver, "Artifcial pancreas: Current progress and future outlook in the treatment of type 1 diabetess," *Drugs*, 2019.

[23] C. Cobelli, E. Renard, and B. Kovatchev, "Artificial pancreas: Past, present, future," *diabetes.diabetesjournals.org*, 2011.

[24] L. Olçomendy, A. Pirog, Y. Bornat, J. Cieslak, D. Derigny, H. Henry, B. Catargi, and S. Rena, "Tuning of an artificial pancreas controller: an in silico methodology based on clinically-relevant criteria," *2020 IEEE*, 2020.

[25] Yale University. The artificial pancreas device system. [Online]. Available: https://www.fda.gov/medical-devices/artificial-pancreas-device-system

[26] E. Villeneuve, S. Lachal, C. Desir, P. Benhamou, S. Franc, G. Charpentier, E. Huneker, and M. Doron, "Increasing the safety of unannounced meal detection for artificial pancreas closed-loop with patient's hourly meal schedule," *IEEE*, 2020.

[27] M. J. Lenhard and G. D. Reeves, "Continuous subcutaneous insulin infusion a comprehensive review of insulin pump therapy," 2001.

[28] S. Li and G. Tao, "Adaptive feedback control based artificial pancreas," *World Congress on Intelligent Control and Automation*, 2008.

[29] C. D. Man, F. Micheletto, D. Lv, M. Breton, B. Kovatchev, and C. Cobelli, "The uva/padova type 1 diabetes simulator: New features," *Journal of Diabetes Science and Technology 2014*, 2014.

[30] E. C. Pimentel and J. C. G. Pimentel, "A novel controller architecture for intelligent artificial pancreas." Institute of Electrical and Electronics Engineers Inc., 2020.

[31] R. Visentin, M. Campos-Náñez, M. Schiavon, D. Lv, M. Vettoretti, M. Breton, B. P. Kovatchev, C. Dalla Man, and C. Cobelli, "The uva/padova type 1 diabetes simulator goes from single meal to single day," *Journal of Diabetes Science and Technology*, no. 2, pp. 273–281, 2018.

[32] A. Molano-Jimenez and F. Leon-Vargas, "Uva/padova t1dms dynamic model revision: For embedded model control," *2017 IEEE 3rd Colombian Conference on Automatic Control (CCAC)*, 2017.

[33] R. Visentin, C. Dalla Man, B. Kovatchev, and C. Cobelli, "The university of virginia/padova type 1 diabetes simulator matches the glucose traces of a clinical trial," *Diabetes Technology and amp*, no. 7, pp. 428–434, 2014.

[34] L. Magni, D. R. Raimondo, C. D. Man, M. Breton, S. Patek, G. D. Nicolao, C. Cobelli, and B. P. Kovatchev, "Evaluating the efficacy of closed-loop glucose regulation via control-variability grid analysis," *Journal of Diabetes Science and Technology*, 2008.

[35] Healthline. 7 best glucose monitors and meter. [Online]. Available: https://www.healthline.com/health/diabetes/best-glucose-monitors

[36] M. M, B. L. Bryant, H. Inverso, H. R. Moore, and R. Streisand, "Young children with type 1 diabetes: Recent advances in behavioral research," *Current Diabetes Reports*, no. 6, pp. 247–256, 2022.