

DAFTAR PUSTAKA

1. Schell CO, Kayambankadzanja R, Beane A, Wellhagen A, Kodippily C, Hvarfner A, et al. The hospital burden of critical illness across global settings: a point-prevalence and cohort study in Malawi, Sri Lanka and Sweden [Internet]. 2024. 2. Kementerian Kesehatan RI. Profil Kesehatan Indonesia Tahun 2019. Jakarta; 2020.
3. Anik Rustini S, Ns Ni Made Manik Elisa Putri Mk, Ns Rufina Hurai M, Ns Ni Kadek Ayu Suarningsih Mk, Ns Ida Ayu Md Vera Susiladewi M, Ns Ni Putu Kamaryati Sk, et al. *Layanan Keperawatan Intensif (Ruang ICU & OK)* [Internet]. 1st ed. Jambi: PT. Sonpedia Publishing Indonesia; 2023.
4. Generali Indonesia. *Tren Klaim Penyakit 2023: Penyakit Kritis Semakin Meningkat dan Jenisnya Semakin Bertambah. Masihkah Proteksi Penyakit Kritis yang Ada Saat ini Relevan? 2023*;
5. Koliaki C, Liatis S, Kokkinos A. Obesity and cardiovascular disease: revisiting an old relationship. Vol. 92, *Metabolism: Clinical and Experimental*. W.B. Saunders; 2019. p. 98–107.
6. Csige I, Ujvárosy D, Szabó Z, Lorincz I, Paragh G, Harangi M, et al. The Impact of Obesity on the Cardiovascular System. Vol. 2018, *Journal of Diabetes Research*. Hindawi Limited; 2018.
7. Singer P, Blaser AR, Berger MM, Alhazzani W, Calder PC, Casaer MP, et al. ESPEN guideline on clinical nutrition in the intensive care unit. *Clinical Nutrition*. 2019 Feb 1;38(1):48–79.
8. Davies H, Morgan D. Estimation of Body Fluid Status by Fluid Balance and Body Weight in Critically Ill Adult Patients: A Systematic Review. *Worldviews Evid Based Nurs*. 2019;16(6):470–7.
9. Pan SD, Zhu LL, Chen M, Xia P, Zhou Q. Weight-based dosing in medication use: What should we know? Vol. 10, *Patient Preference and Adherence*. Dove Medical Press Ltd.; 2016. p. 549–60.
10. Mishra RK, Pande A, Ramachandran R, Trikha A, Singh PM, Rewari V. Effect of change in body weight on clinical outcomes in critically ill patients. *Indian Journal of Critical Care Medicine*. 2021 Sep 1;25(9):1042–8.
11. You JW, Lee SJ, Kim YE, Cho YJ, Jeong YY, Kim HC, et al. Association between weight change and clinical outcomes in critically ill patients. *J Crit Care*. 2013 Dec;28(6):923–7.
12. Narayan SK, Gudivada KK, Krishna B. Assessment of nutritional status in the critically ill. Vol. 24, *Indian Journal of Critical Care Medicine*. Jaypee Brothers Medical Publishers (P) Ltd; 2020. p. S152–6.

13. Bryan R. Bailey, Michael J. Gaunt, Matthew Grissinger. Update on Medication Errors Associated with Incorrect Patient Weights. *Pennsylvania Patient Safety Advisory*. 2016;13(2):50–7.
14. Choi I, Lee SM, Flynn L, Kim CM, Lee S, Kim NK, et al. Incidence and treatment costs attributable to medication errors in hospitalized patients. *Research in Social and Administrative Pharmacy*. 2016 May 1;12(3):428–37.
15. Mogensen KM, Robinson MK, Casey JD, Gunasekera NS, Moromizato T, Rawn JD, et al. Nutritional status and mortality in the critically ill. *Crit Care Med*. 2015 Dec 1;43(12):2605–15.
16. McFall A, Peake SL, Williams PJ. Weight and height documentation: Does ICU measure up? *Australian Critical Care*. 2019 Jul 1;32(4):314–8.
17. Lambert K, Ferguson A, Meletis M, Charlton K. How frequently are patients weighed in hospital? Results from a five-year cross-sectional audit of clinical practice in nine hospitals. *Clin Nutr ESPEN*. 2020 Apr 1;36:157–61.
18. Hurnauth C, Mcdougall M. Weighing patients in Scottish critical care units: weighed down by Inaccuracy? *Proceedings of the Nutrition Society*. 2010;69(OCE2).
19. Safety and Quality Unit (S&QU). Clinical documentation of patient weight report. Tasmania; 2010.
20. Flentje KM, Knight CL, Stromfeldt I, Chakrabarti A, Friedman ND. Recording patient bodyweight in hospitals: are we doing well enough? Vol. 48, *Internal Medicine Journal*. Blackwell Publishing; 2018. p. 124–8.
21. Kementerian Kesehatan Republik Indonesia. Peraturan Menteri Kesehatan Republik Indonesia No. 10 Tahun 2015. 10 Indonesia; 2015.
22. Kementerian Kesehatan Republik Indonesia. Modul Pelatihan Proses Asuhan Gizi Terstandar: Kebijakan dan Standar Pelayanan Gizi. Jakarta; 2022.
23. Ed nd, Siobal MS, Jami Baltz FE, Jodi Wright C. *A Guide to the Nutritional Assessment and Treatment of the Critically Ill Patient*. 2021.
24. Maskin P, Valentini R. Importance of the accuracy of weight and height measurement in the intensive care unit. *International Journal of Intensive Care*. 2011;26–8.
25. Picolo MF, Lago AF, Meneguetti MG, Nicolini EA, Basile-Filho A, Nunes AA, et al. Harris-benedict equation and resting energy expenditure estimates in critically ILL ventilator patients. *American Journal of Critical Care*. 2016;25(1):e21–9.
26. Manoj R, Joseph J, Kumarasami R, George B. Continuous Weight Monitoring System for ICU Beds using Air-filled Mattresses/Pads: A Proof of Concept. In: *IEEE Instrumentation and Measurement Society*. 2019.
27. Shafi I, Farooq MS, De La Torre Díez I, Breñosa J, Espinosa JCM, Ashraf I. Design and Development of Smart Weight Measurement, Lateral Turning and Transfer

- Bedding for Unconscious Patients in Pandemics. *Healthcare (Switzerland)*. 2022 Nov 1;10(11).
28. Son K, Tarao K, Hateruma Y, Nozaki-Taguchi N, Sato Y, Isono S. Perioperative continuous body weight measurements with load cells under the bed legs in patients undergoing abdominal surgery. *European Journal of Anaesthesiology Intensive Care*. 2023;2(4):e0028.
 29. Ishikawa T, Sakai I, Amemiya A, Komatsu R, Sakuraba S, Isono S. Long-term body weight change assessed by non-contact load cells under the bed in older people with and without eating assistance: a preliminary study. *Sci Rep*. 2022 Dec 1;12(1).
 30. Awad MO, Mohamed SS, Hamed SM. Effect of an Educational Program on Nurse's Performance Regard Monitoring Fluid and Electrolyte Replacement for Burned Patients. *Original Article Egyptian Journal of Health Care*. 2020;11(4):460–81.
 31. Mohamed MA, Mohammed R, Taha H. Effect of Educational Protocol Regarding Accurate Monitoring Fluid Balance on Critical Care Nurses' Knowledge and Practice. *Minia Scientific Nursing Journal*. 2018;(4):76.
 32. Vincent JL, Creteur J. The Critically Ill Patient. In: *Critical Care Nephrology: Third Edition*. Elsevier Inc.; 2019. p. 1-4.e1.
 33. Webb A, Angus D, Gattioni L, Singer M, Finfer S. *Oxford Textbook of Critical Care*. 2nd ed. United Kingdom: Oxford University Press; 2019.
 34. Maslove DM, Tang B, Shankar-Hari M, Lawler PR, Angus DC, Baillie JK, et al. Redefining critical illness. *Nat Med*. 2022 Jun 1;28(6):1141–8.
 35. Peate I, Hill B. *Fundamentals of Critical Care: A textbook for nursing and healthcare students*. 1st ed. New Jersey: John Wiley & Sons Ltd; 2023.
 36. Khursheed N. J. Nutritional Assessment. In: *Encyclopedia of Gastroenterology*. Elsevier; 2004. p. 759–66.
 37. Sowers M, Tisch J. Insulin Resistance, Body Weight, Obesity, Body Composition, and the Menopausal Transition. In: *Menopause: Biology and Pathobiology*. Academic Press; 2000. p. 245–60.
 38. Macdonald JJ, Moore J, Davey V, Pickering S, Dunne T. The weight debate. *J Intensive Care Soc*. 2015 Aug 1;16(3):234–8.
 39. Linares-Perdomo O, East TD, Brower R, Morris AH. Standardizing Predicted Body Weight Equations for Mechanical Ventilation Tidal Volume Settings. *Chest* [Internet]. 2015;148(1):73–8. Available from: <http://journal.publications.chestnet.org/>
 40. Hodge EK, Hughes DW, Attridge RL. Effect of Body Weight on Hemodynamic Response in Patients Receiving Fixed-Dose Vasopressin for Septic Shock. *Annals of Pharmacotherapy*. 2016 Oct 1;50(10):816–23.
 41. Erstad BL, Barletta JF. Drug dosing in the critically ill obese patient - A focus on sedation, analgesia, and delirium. *Crit Care*. 2020 Jun 8;24(315).

42. South Australian Expert Advisory Group on Antibiotic Resistance. Vancomycin Dosing and Monitoring in Adults Clinical Guideline [Internet]. South Australian Safety & Quality Strategic Governance Committee, South Australian Health; 2019 [cited 2024 Feb 9].
43. Manoj R, Kumarasami R, Joseph J, George B, Sivaprakasam M. Continuous Weight Monitoring System for ICU Beds using Air-filled Mattresses/Pads: A Proof of Concept. IEEE Instrumentation and Measurement Society. 2019;
44. Freitag E, Edgecombe G, Baldwin I, Cottier B, Heland M. Determination of body weight and height measurement for critically ill patients admitted to the intensive care unit: A quality improvement project. *Australian Critical Care*. 2010 Nov;23(4):197–207.
45. Chittawatanarat K, Pichaiya T, Chandacham K, Jirapongchareonlap T, Chotirosniramit N. Fluid accumulation threshold measured by acute body weight change after admission in general surgical intensive care units: How much should be concerning? *Ther Clin Risk Manag*. 2015 Jul 27;11:1097–106.
46. Leary TS, Milner QJW, Niblett DJ. The accuracy of the estimation of body weight and height in the intensive care unit. *Eur J Anaesthesiol*. 2000;17:698–703.
47. Schneider AG, Baldwin I, Freitag E, Glassford N, Bellomo R. Estimation of fluid status changes in critically ill patients: Fluid balance chart or electronic bed weight? *J Crit Care*. 2012;27(6):745.e7-745.e12.
48. Bloomfield R, Steel E, MacLennan G, Noble DW. Accuracy of weight and height estimation in an intensive care unit: Implications for clinical practice and research. *Crit Care Med*. 2006 Aug;34(8):2153–7.
49. YK Yeo N, AJ Reddi B, Schultz CG, O'Connor SN, Chapman MJ, S Chapple L anne. Early anthropometry, strength, and function in survivors of critical illness. *Australian Critical Care*. 2021 Jan 1;34(1):33–7.
50. Zhu Y, Peng W, Zhen S, Jiang X. Mechanical power normalized to predicted body weight is associated with mortality in critically ill patients: a cohort study. *BMC Anesthesiol*. 2021 Dec 1;21(1).
51. Graf S, Pichard C, Genton L, Oshima T, Heidegger CP. Energy expenditure in mechanically ventilated patients: The weight of body weight! *Clinical Nutrition*. 2017;36(1):224–8.
52. Hsu PH, Lee CH, Kuo LK, Kung YC, Chen WJ, Tzeng MS. Determination of the energy requirements in mechanically ventilated critically ill elderly patients in different BMI groups using the Harris–Benedict equation. *Journal of the Formosan Medical Association*. 2018 Apr 1;117(4):301–7.
53. Chapple L anne, Gan M, Louis R, Yaxley A, Murphy A, Yandell R. Nutrition-related outcomes and dietary intake in non-mechanically ventilated critically ill adult patients: A pilot observational descriptive study. *Australian Critical Care*. 2020 May 1;33(3):300–8.

54. Thongprayoon C, Cheungpasitporn W, Akhoundi A, Ahmed AH, Kashani KB. Actual versus ideal body weight for acute kidney injury diagnosis and classification in critically ill patients. *BMC Nephrol.* 2014;15(1).
55. Yang J, Cheng D, Hofer I, Nguyen-Buckley C, Disque A, Wray C, et al. Intraoperative High Tidal Volume Ventilation and Postoperative Acute Respiratory Distress Syndrome in Liver Transplant. *Transplant Proc.* 2022 Apr 1;54(3):719–25.
56. Moonen HP, Hermans AJ, Jans I, van Zanten AR. Protein requirements and provision in hospitalised COVID-19 ward and ICU patients: Agreement between calculations based on body weight and height, and measured bioimpedance lean body mass. *Clin Nutr ESPEN.* 2022 Jun 1;49:474–82.
57. Kokong DD, Pam IC, Zoakah AI, Danbauchi SS, Mador ES, Mandong BM. Estimation of weight in adults from height: A novel option for a quick bedside technique. *Int J Emerg Med.* 2018 Nov 27;11(1).
58. Schneider AG, Thorpe C, Dellbridge K, Matalanis G, Bellomo R. Electronic bed weighing vs daily fluid balance changes after cardiac surgery. *J Crit Care.* 2013;28(6):1113.e1-1113.e5.
59. Manufacturer: Hill-Rom S.A.S. Hillrom ® 900 Accella™ bed. France; 2020.
60. Jaysrichai T. Load Cells Application for Developing Weight-Bearing Detection via Wireless Connection. *Open Biomed Eng J.* 2018 Dec 14;12(1):101–7.
61. Isaac KM, Colozza A, Rolwes J. Force measurements on a flapping and pitching wing at low reynolds numbers. In: *Collection of Technical Papers - 44th AIAA Aerospace Sciences Meeting.* American Institute of Aeronautics and Astronautics Inc.; 2006. p. 5306–19.
62. Locsin R, Tanioka T, Kondo K. Theory of Technological Competency as Caring within Nursing and the Health Science: From Philosophical and Theoretical to Praxis. *The Journal of Medical Investigation.* 2019;66.
63. Bahari K, Talosig AT, Pizarro JB. Nursing Technologies Creativity as an Expression of Caring: A Grounded Theory Study. *Glob Qual Nurs Res.* 2021;8.
64. Locsin RC. The Co-Existence of Technology and Caring in the Theory of Technological Competency as Caring in Nursing. *The Journal of Medical Investigation.* 2017;64:160–4.
65. Davis FD. Perceived Usefulness, Perceived Ease of Use, and User Acceptance of Information Technology. *MIS Quarterly.* 1989 Sep;13(3):319–40.
66. Davis FD, Bagozzi RP, Warshaw PR. User Acceptance of Computer Technology: A Comparison of Two Theoretical Models. *Manage Sci.* 1989 Aug;35(8):982–1003.
67. Holden RJ, Karsh BT. The Technology Acceptance Model: Its past and its future in health care. Vol. 43, *Journal of Biomedical Informatics.* 2010. p. 159–72.

68. Andy R, Dewi AC, As'adi M. An Empirical Study to Validate The Technology Acceptance Model (TAM) In Evaluating “Desa Digital” Applications. IOP Conf Ser Mater Sci Eng. 2021 May 1;1125(1):012055.
69. Ravizza A, Sternini F, Giannini A, Molinari F. Methods for preclinical validation of software as a medical device. In: HEALTHINF 2020 - 13th International Conference on Health Informatics, Proceedings; Part of 13th International Joint Conference on Biomedical Engineering Systems and Technologies, BIOSTEC 2020. SciTePress; 2020. p. 648–55.
70. Park JC, Lee DH, Suh-Hwal. Preclinical Evaluation of Prototype Products. Yoosei Medical Journal. 1999;40(6):530–5.
71. Nirschl TR, Liu JL, Singla N. Chapter 5 - Overview of preclinical research. In: Eltorai AEM, Arab A, Atala A, Siddiqui MM, editors. Translational Urology [Internet]. Academic Press; 2025. p. 21–4.
72. Mohandas K. Ethical issues in clinical evaluation. In: Transactions - 7th World Biomaterials Congress [Internet]. 2004. p. 45.
73. Rincon F, Lee K. Ethical considerations in consenting critically ill patients for bedside clinical care and research. J Intensive Care Med [Internet]. 2015;30(3):141–50.
74. Savonitto S, Coppola T, Braglia P, Ciccone A. Informed consent for clinical investigation in the critically ill patient. An introduction to the regulation 536/2014/EC on clinical investigation of medicinal products for human use, repealing Directive 2001/20/EC; [Il consenso informato alla sperimentazione clinica nel paziente critico. Introduzione al Regolamento UE n. 536/2014 sulla sperimentazione clinica di medicinali per uso umano che abroga la Direttiva 2001/20/CE]. G Ital Cardiol [Internet]. 2016;17(5):326 – 334.
75. Liao M, Cooper K. Device testing: Safety and efficacy. In: Translational Interventional Radiology [Internet]. 2023. p. 69–72.
76. Islam FZ, Islam MS. Device testing. In: Translational Orthopedics [Internet]. 2024. p. 53–7.
77. Niimi S. Practice of regulatory science (Development of medical devices). Yakugaku Zasshi [Internet]. 2017;137(4):431–7.
78. Hamilton C. Critical assessment of new devices. Perfusion [Internet]. 2007;22(3):167–71.
79. Sprovieri J. Usability tests lend insight into medical device design. Assembly [Internet]. 2013;56(4).
80. Lau F. Methods for Survey Studies. In: Lau F, Kuziemy C, editors. Handbook of eHealth Evaluation: An Evidence-based Approach [Internet]. Victoria: University of Victoria; 2017.

81. Majid U. Research Fundamentals: Study Design, Population, and Sample Size. Undergraduate Research in Natural and Clinical Science and Technology (URNCSST) Journal. 2018 Jan 10;2(1):1–7.
82. Bolarinwa OA. Sample size estimation for health and social science researchers: The principles and considerations for different study designs. Vol. 27, The Nigerian postgraduate medical journal. NLM (Medline); 2020. p. 67–75.
83. Bujang MA, Sidik TMITAB, Sa'at N. Application of Consecutive Sampling Technique in a Clinical Survey for an Ordered Population: Does it Generate Accurate Statistics? Philippine Statistician [Internet]. 2022;71(1):87–98.
84. Clinical and Laboratory Standard Institute. EP09-A3: Measurement Procedure Comparison and Bias Estimation Using Patient Sample Approved Guideline [Internet]. 3rd ed. Wayne; 2013. Available from: www.clsi.org.
85. Sadler WA. Using the variance function to generalize Bland–Altman analysis. Ann Clin Biochem [Internet]. 2019;56(2):198–203.
86. Mark H, Workman Jr. J. Statistics and chemometrics for clinical data reporting, part III: Using excel for data plotting. Spectroscopy (Santa Monica) [Internet]. 2010;25(2).
87. Flannelly LT, Flannelly KJ, Jankowski KRB. Independent, Dependent, and Other Variables in Healthcare and Chaplaincy Research. In: Quantitative Research for Chaplains and Health Care Professionals: A Primer. 1st ed. London: Routledge; 2019. p. 10.
88. Slife BD, Wright CD, Yanchar SC. Using Operational Definitions in Research: A Best-Practices Approach. Vol. 37, Source: The Journal of Mind and Behavior. 2016.
89. Mishra P, Pandey CM, Singh U, Gupta A. Scales of measurement and presentation of statistical data. Ann Card Anaesth. 2018 Oct 1;21(4):419–22.
90. Ozag D, Duguma B. The relationship between cognitive processes and perceived usefulness: An extension of TAM2. In: InProceedings of 23rd Annual Organizational Systems Research Association Conference. Pennsylvania: Pittsburgh; 2004.
91. Clark RA, Bryant AL, Pua Y, McCrory P, Bennell K, Hunt M. Validity and reliability of the Nintendo Wii Balance Board for assessment of standing balance. Gait Posture. 2010 Mar;31(3):307–10.
92. Horani A, Frenkel S, Yahalom C, Farber MD, Ticho U, Blumenthal EZ. The Learning Effect in Visual Field Testing of Healthy Subjects Using Frequency Doubling Technology. J Glaucoma [Internet]. 2002;11(6).
93. Lyng GD, Sheils NE, Kennedy CJ, Griffin DO, Berke EM. Identifying optimal COVID-19 testing strategies for schools and businesses: Balancing testing frequency, individual test technology, and cost. PLoS One. 2021 Mar 1;16(3 March).

94. Adiputra IMS, Trisnadewi NW, Oktaviani NPW, Munthe SA, Hulu VT, Budiastutik I, et al. *Metodologi Penelitian Kesehatan*. Cetakan 1. Watrianthos R, Simarmata J, editors. Jakarta: Yayasan Kita Menulis; 2021. xvi–308.
95. Kurniawan W, Agustini A. *Metodologi penelitian kesehatan dan keperawatan*. Cetakan 1. Rahmawati A, editor. Cirebon: Rumah Pustaka; 2021. 1–170 p.
96. Meyers JP. *Python programming: Bible 3 in 1*. 2023.
97. Merkow RP, Kaji AH, Itani KMF. The CONSORT Framework. Vol. 156, *JAMA Surgery*. American Medical Association; 2021. p. 877–8.
98. Nahm FS. Receiver operating characteristic curve: overview and practical use for clinicians. *Korean J Anesthesiol*. 2022 Feb 1;75(1):25–36.
99. Doğan NÖ. Bland-Altman analysis: A paradigm to understand correlation and agreement. Vol. 18, *Turkish Journal of Emergency Medicine*. Emergency Medicine Association of Turkey; 2018. p. 139–41.
100. Karun KM, Puranik A. BA.plot: An R function for Bland-Altman analysis. *Clin Epidemiol Glob Health*. 2021 Oct 1;12.
101. Fleiss JL. Reliability of Measurement. In: *The Design and Analysis of Clinical Experiments* [Internet]. 1999. p. 1–32. Available from: <https://doi.org/10.1002/9781118032923.ch1>
102. Aldor-Noiman S, Brown LD, Buja A, Rolke W, Stine RA. The power to see: A new graphical test of normality. *American Statistician* [Internet]. 2013;67(4):249–60.
103. Yap BW, Sim CH. Comparisons of various types of normality tests. *J Stat Comput Simul* [Internet]. 2011;81(12):2141–55.
104. Ahad NA, Yin TS, Othman AR, Yaacob CR. Sensitivity of normality tests to non-normal data. *Sains Malays* [Internet]. 2011;40(6):637–41.
105. Hedberg EC, Ayers S. The power of a paired t-test with a covariate. *Soc Sci Res* [Internet]. 2015;50:277–91.
106. Ghadhban GA, Rasheed HA. Robust tests for the mean difference in paired data using Jackknife resampling technique. *Iraqi Journal of Science* [Internet]. 2021;62(9):3081–90.
107. Liu J, Ma S, Xu W, Zhu L. A generalized Wilcoxon–Mann–Whitney type test for multivariate data through pairwise distance. *J Multivar Anal* [Internet]. 2022;190.
108. Vermeulen K, Thas O, Vansteelandt S. Increasing the power of the Mann-Whitney test in randomized experiments through flexible covariate adjustment. *Stat Med* [Internet]. 2015;34(6):1012–30.
109. Sauvageau M, Kumral M. Analysis of Mining Engineering Data Using Robust Estimators in the Presence of Outliers. *Natural Resources Research* [Internet]. 2015;24(3):305–16.

110. Sazonets I, Yekimov S, Hinke J, Šálková D, Křečková R. Spearman's correlation coefficient: the case of duplicate ranks. In: E3S Web of Conferences [Internet]. 2024.
111. Zhang WJ, Li X. General correlation and partial correlation analysis in finding interactions: With spearman rank correlation and proportion correlation as correlation measures. *Network Biology* [Internet]. 2015;5(4):163–8.
112. Setiana A, Nuraeni R. Riset keperawatan. Cetakan 1. Rahmawati A, editor. Cirebon: LovRinz Publishing; 2018. 1–145 p.
113. Mawarti H, et al. Pengantar riset keperawatan. Cetakan 1. Watrianthos R, editor. Jakarta: Yayasan Kita Menulis; 2021. xiv–184.
114. García-Martínez MA, Cherednichenko T, Hidalgo Encinas Y, Catalá Espinosa AI, Arrascaeta Llanes A, Acosta Escribano JA. Quality of anthropometric measurements in Spanish Intensive Care Units (The CAMIES Study). *Medicina Intensiva (English Edition)*. 2018 Aug;42(6):329–36.
115. Zauner A, Schneeweiss B, Kneidinger N, Lindner G, Zauner C. Weight-adjusted resting energy expenditure is not constant in critically ill patients. *Intensive Care Med*. 2006 Mar;32(3):428–34.
116. Lakenman PLM, van Marwijk I, van der Hoven B, van Bommel J, Joosten KFM, Olieman JF. Association between fat-free mass and survival in critically ill patients with COVID-19: A prospective cohort study. *Journal of Parenteral and Enteral Nutrition* [Internet]. 2024;48(2):192–8.
117. Mogensen KM, Andrew BY, Corona JC, Robinson MK. Validation of the society of critical care medicine and American society for parenteral and enteral nutrition recommendations for caloric provision to critically ill obese patients: A pilot study. *Journal of Parenteral and Enteral Nutrition* [Internet]. 2016;40(5):713–21.
118. Schneider AG, Thorpe C, Dellbridge K, Matalanis G, Bellomo R. Electronic bed weighing vs daily fluid balance changes after cardiac surgery. *J Crit Care*. 2013;28(6):1113.e1-1113.e5.
119. Cho I, Choi WJ, Choi W, Hyun M, Park Y, Lee Y, et al. Identifying usability level and factors affecting electronic nursing record systems: A multi-institutional time-motion approach. *J Korean Acad Nurs* [Internet]. 2015;45(4):523–32.
120. Sowan AK, Leibas M, Tarriela A, Reed C. Nurses' perceptions of a care plan information technology solution with hundreds of clinical practice guidelines in adult intensive care units: Survey study. *JMIR Hum Factors* [Internet]. 2019;6(1).
121. Yan Y, Zhao C, Bi X, Or CK, Ye X. The mental workload of ICU nurses performing human-machine tasks and associated factors: A cross-sectional questionnaire survey. *J Adv Nurs* [Internet]. 2025;81(1):224–36.
122. Okumura M, Ishigaki T, Mori K, Fujiwara Y. Development of an easy-to-use questionnaire assessing critical care nursing competence in Japan: A cross-sectional study. *PLoS One* [Internet]. 2019;14(11).

123. Kelly DM, Kutney-Lee A, McHugh MD, Sloane DM, Aiken LH. Impact of critical care nursing on 30-day mortality of mechanically ventilated older adults. *Crit Care Med* [Internet]. 2014;42(5):1089–95.
124. Meenatchi Sundaram S, Naik JR, Natarajan M, Acharya K A. Design and development of an IoT-based trolley for weighing the patient in lying condition. *Front Digit Health*. 2024;6.
125. Arianto E. Penelitian dan Pengembangan Smart Patient Bed dengan Sistem Pemantauan Berat Badan Pasien Berbasis IoT. 2024;14(1). Available from: <https://jitekin-upiypk.org/ojs>
126. Crandall CS, Gardner S, Braude DA. Estimation of total body weight in obese patients. *Air medical journal associates*. 2009;28(3):139–45.
127. Maskin LP, Attie S, Setten M, Rodrigues PO, Bonelli i., Stryjewski ME. Accuracy of weight and height estimation in an intensive care unit. *Anaesth Intensive Care*. 2010;38(5):930–4.
128. Alquran H, Abu-Qasmieh I, Khresat S, Younes AB, Almomani S. Weight estimation for anesthetic administration using singular value decomposition and template matching for supine subject of different obesity levels. *Health Technol (Berl)*. 2018 Sep 1;8(4):265–9.
129. Köster M, Dennhardt S, Jüttner F, Hopf HB. Cumulative changes in weight but not fluid volume balances reflect fluid accumulation in ICU patients. *Acta Anaesthesiol Scand* [Internet]. 2017;61(2):205–15.
130. Chen W, Zhang D, Lian W, Wang X, Du W, Zhang Z, et al. Imipenem population pharmacokinetics: Therapeutic drug monitoring data collected in critically ill patients with or without extracorporeal membrane oxygenation. *Antimicrob Agents Chemother* [Internet]. 2020;64(6).
131. Peake SL, Moran JL, Ghelani DR, Lloyd AJ, Walker MJ. The effect of obesity on 12-month survival following admission to intensive care: A prospective study. *Crit Care Med* [Internet]. 2006;34(12):2929–39.
132. Xiao GZ, Su L, Duan PK, Wang QX, Huang Y. Comparison of measuring energy expenditure with indirect calorimetry and traditional estimation of energy expenditure in patients in intensive care unit. *Chinese Critical Care Medicine* [Internet]. 2011;23(7):392–5.
133. Seo YS, Kim YE, Lee SJ, Cho YJ, Jeong YY, Kim HC, et al. The Clinical Significance of Weight Change in Mechanical Ventilated, Critically Ill Patients of ICU. *American Thoracic Society International Conference* [Internet]. 2012.
134. Watkin D, Welhengama C, Watmore J, Normanton R, Watson J, Wallis A, et al. Beyond audit: Embracing QI methodology to drive improvements in lung-protective ventilation. *Nurs Crit Care* [Internet]. 2023;28(1):21–9.
135. Bredella MA. Sex differences in body composition. In: *Advances in Experimental Medicine and Biology* [Internet]. 2017. p. 9–27.

136. Ethun K. Sex and Gender Differences in Body Composition, Lipid Metabolism, and Glucose Regulation. In: Sex Differences In Physiology [Internet]. 2016. p. 145–65.
137. Olds T, Maher C. Gender, Ethnic, and Geographic Variation in Adiposity. In: Handbook of Obesity: Epidemiology, Etiology, and Physiopathology: Volume 1, Third Edition [Internet]. 2014. p. 75–88.
138. Power ML, Schulkin J. Sex differences in fat storage, fat metabolism, and the health risks from obesity: Possible evolutionary origins. *British Journal of Nutrition* [Internet]. 2008;99(5):931–40.
139. Wu BN, O’Sullivan AJ. Sex differences in energy metabolism need to be considered with lifestyle modifications in humans. *J Nutr Metab* [Internet]. 2011;2011.
140. Adegoke BOA, Bello AI, Abass AO, Adjei DN. Influence of height and BMI on weight bearing of male and female individuals at two levels of human immersion-A cross-sectional study. *Journal of Physical Therapy* [Internet]. 2014;8(2):38–42.
141. Yeng PP, Sedek R. The body weight perception and weight control behaviors among undergraduate students in National University of Malaysia (UKM). *Pakistan Journal of Nutrition* [Internet]. 2012;11(12):1131–7.
142. Merry K, Napier C, Chung V, Hannigan BC, Macpherson M, Menon C, et al. The validity and reliability of two commercially available load sensors for clinical strength assessment. *Sensors* [Internet]. 2021;21(24).
143. Alqahtani BA, Sparto PJ, Whitney SL, Greenspan SL, Perera S, Brach JS. Psychometric Properties of Lower Extremity Strength Measurements Recorded in Community Settings in Independent Living Older Adults. *Exp Aging Res* [Internet]. 2019;45(3):282–92.
144. Kanauchi Y, Murase T, Nishiwaki M, Odagiri M, Wanezaki Y, Ishikawa H. Study of Reliability and Validity of the Load Cell-Type Hand Dynamometer Compared to the Jamar Dynamometer and the Number of Reliable Grip Strength Measurements. *Journal of Hand Surgery Asian-Pacific Volume* [Internet]. 2023;28(5):562–72.
145. Koo TK, Li MY. A Guideline of Selecting and Reporting Intraclass Correlation Coefficients for Reliability Research. *J Chiropr Med* [Internet]. 2016;15(2):155–63.
146. Trevethan R. Intraclass correlation coefficients: clearing the air, extending some cautions, and making some requests. *Health Serv Outcomes Res Methodol* [Internet]. 2017;17(2):127–43.
147. Roghani T, Khalkhali Zavieh M, Rahimi A, Talebian S, Manshadi FD, Akbarzadeh Baghban A, et al. The reliability and validity of a designed setup for the assessment of static back extensor force and endurance in older women with and without hyperkyphosis. *Physiother Theory Pract* [Internet]. 2018;34(11):882–93.
148. Daly K, Fenelon A. Application of Energy Dispersive X-ray Fluorescence Spectrometry to the Determination of Copper, Manganese, Zinc, and Sulfur in Grass (*Lolium perenne*) in Grazed Agricultural Systems. *Appl Spectrosc* [Internet]. 2018;72(11):1661–73.

149. Tinsley GM. Proportional bias between dual-energy x-ray absorptiometry and bioelectrical impedance analysis varies based on sex in active adults consuming high- and low-carbohydrate diets. *Nutrition Research* [Internet]. 2017;42:85–100.
150. Chung JH, Huitt G, Yagihashi K, Hobbs SB, Faino A V, Bolster BD, et al. Proton magnetic resonance imaging for initial assessment of isolated mycobacterium avium complex pneumonia. *Ann Am Thorac Soc* [Internet]. 2016;13(1):49–57.
151. Liao JJZ, Capen R. An improved bland-altman method for concordance assessment. *International Journal of Biostatistics* [Internet]. 2011;7(1).
152. Yoshinaga R, Futsuhara H. Relative and absolute intra-rater reliability of wright respirometer in measuring vital capacity for neuromuscular disorders. *IRYO - Japanese Journal of National Medical Services* [Internet]. 2015;69(2):62–8.
153. Sato M, Takahashi G, Shibata S, Onodera M, Suzuki Y, Inoue Y, et al. Clinical Performance of a New Soluble CD14-Subtype Immunochromatographic Test for Whole Blood Compared with Chemiluminescent Enzyme Immunoassay: Use of Quantitative Soluble CD14-Subtype Immunochromatographic Tests for the Diagnosis of Sepsis. *PLoS One* [Internet]. 2015;10(12).
154. Takasaki H, Kanayasu S. KOJI AWARENESS, a self-rating whole-body movement assessment system, has intersession reliability and comparability to external examiner rating. *PLoS One* [Internet]. 2024;19(8).
155. Hart S, Drevets K, Alford M, Salacinski A, Hunt BE. A method-comparison study regarding the validity and reliability of the Lactate Plus analyzer. *BMJ Open* [Internet]. 2013;3(2).
156. Hara T, Ishihara T, Asano T, Matsuo M, Katafuchi T, Fujita H. A robust conversion method of radioactivities between plastic and NaI scintillation well counters for long-term quality control and quality assurance. *EJNMMI Phys* [Internet]. 2016;3(1).
157. Rojano-Ortega D, Moya-Amaya H, Molina-López A, Berral-Aguilar AJ, Berral-De La Rosa FJ. Development and validation of a new anthropometric equation to predict fat mass percentage in a heterogeneous Caucasian population. *Public Health Nutr* [Internet]. 2024;27(1).
158. Johnson BM, Fry MM, Flatland B, Kirk CA. Comparison of a human portable blood glucose meter, veterinary portable blood glucose meter, and automated chemistry analyzer for measurement of blood glucose concentrations in dogs. *J Am Vet Med Assoc* [Internet]. 2009;235(11):1309–13.
159. Shomer M, Eli Koskas M. Aircraft weighing procedure error analysis - Flight safety implementations in the IAF. In: *Proceedings 45th Israel Annual Conference on Aerospace Sciences 2005* [Internet]. 2005.
160. Lachin JM. The role of measurement reliability in clinical trials. *Clinical Trials* [Internet]. 2004;1(6):553–66.

161. Amaral AM, Cabral Filho FR, Vellame LM, Teixeira MB, Soares FAL, Santos LNSD. Uncertainty of weight measuring systems applied to weighing lysimeters. *Comput Electron Agric* [Internet]. 2018;145:208–16.
162. Hill B. Measuring weight and center of gravity using load cells. In: *Society of Allied Weight Engineers - 65th Annual International Conference on Mass Properties Engineering 2006* [Internet]. 2006. p. 33–51.
163. Lin S, Zhang L, Zhou S, Zhang C. Multi-dimensional dynamic measurement uncertainty analysis for the six-axis force sensor used in docking system. *Transactions of the Institute of Measurement and Control* [Internet]. 2018;40(10):3040–8.
164. Montoro-Bombú R, Gomes BB, Santos A, Rama L. Validity and Reliability of a Load Cell Sensor-Based Device for Assessment of the Isometric Mid-Thigh Pull Test. *Sensors* [Internet]. 2023;23(13).
165. Gallis JA, Kusibab K, Egger JR, Olsen MK, Askew S, Steinberg DM, et al. Can Electronic Health Records Validly Estimate the Effects of Health System Interventions Aimed at Controlling Body Weight? *Obesity* [Internet]. 2020;28(11):2107–15.
166. Zhu H, Yuan W, Wenpeng X, Yang Y. Weighing system of hospital bed. 2012.
167. Du H. Patient beds capable of weighing [Internet]. 2007. Available from: <https://europepmc.org/article/PAT/CN201091648Y>
168. Lee TT, Mills MEE, Lu MH. The multimethod evaluation of a nursing information system in Taiwan. *CIN - Computers Informatics Nursing* [Internet]. 2009;27(4):245–53.
169. Zibrowski E, Shepherd L, Sedig K, Booth R, Gibson C. Easier and faster is not always better: Grounded theory of the impact of large-scale system transformation on the clinical work of emergency medicine nurses and physicians. *JMIR Hum Factors* [Internet]. 2018;5(4).
170. Suresh Kumar M, Rachel S, Kaviselvan M V. Machine learning-based industrial internet of things (IIoT) and its applications. In: *Applied Learning Algorithms for Intelligent IoT* [Internet]. 2021. p. 123–51.
171. Sethi M, Arkko J, Keranen A. End-to-end security for sleepy smart object networks. In: *Proceedings - Conference on Local Computer Networks, LCN* [Internet]. 2012. p. 964–72.
172. Cho SP, Kim JG. E-learning based on internet of things. *Adv Sci Lett* [Internet]. 2016;22(11):3294–8.
173. Engert M, Chu Y, Hein A, Krcmar H. Managing the Interpretive Flexibility of Technology: A Case Study of Celonis and its Partner Ecosystem. In: *42nd International Conference on Information Systems, ICIS 2021 TREOs: “Building Sustainability and Resilience with IS: A Call for Action”* [Internet]. 2021.

174. Judi HM, Beach R. Achieving manufacturing flexibility: The role of people, Technology, innovation and continuous improvement. *International Journal of Innovation and Technology Management* [Internet]. 2010;7(2):161–81.
175. Kara S, Kayis B. Manufacturing flexibility and variability: An overview. *Journal of Manufacturing Technology Management* [Internet]. 2004;15(6):466–78.
176. Luo J, Moncada J, Ramirez A. Development of a Conceptual Framework for Evaluating the Flexibility of Future Chemical Processes. *Ind Eng Chem Res* [Internet]. 2022;61(9):3219–32.