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DAFTAR PUSTAKA

Adrian, M., Kander, T., Lundén, R., Borgquist, O., 2022. The right supraclavicular fossa ultrasound view for correct catheter tip positioning in right subclavian vein catheterisation: a prospective observational study. Anaesthesia 77, 66–72. https://doi.org/10.1111/anae.15534

Arvaniti, K., Lathyris, D., Blot, S., Apostolidou-Kiouti, F., Koulenti, D., Haidich, A.-B., 2017. Cumulative Evidence of Randomized Controlled and Observational Studies on Catheter-Related Infection Risk of Central Venous Catheter Insertion Site in ICU Patients: A Pairwise and Network Meta-Analysis. Crit. Care Med. 45, e437–e448. https://doi.org/10.1097/CCM.0000000000002092

Average Height by Country 2024 [WWW Document], n.d. . World Popul. Rev. URL https://worldpopulationreview.com/country-rankings/average-height-by-country (accessed 11.13.24).

Beheshti, M.V., 2011. A Concise History of Central Venous Access. Tech. Vasc. Interv. Radiol. 14, 184–185. https://doi.org/10.1053/j.tvir.2011.05.002

Berry, C., 2024. How To Do Infraclavicular Subclavian Vein Cannulation.

Brass, P., Hellmich, M., Kolodziej, L., Schick, G., Smith, A.F., 2015. Ultrasound guidance versus anatomical landmarks for subclavian or femoral vein catheterization. Cochrane Database Syst. Rev. 2018. https://doi.org/10.1002/14651858.CD011447

Butterworth, J.F., 2022. Morgan & Mikhail's Clinical Anesthesiology, seventh edition. ed, McGraw-Hill's AccessMedicine. McGraw-Hill LLC, New York.

Camporesi, A., Silvani, P., 2006. An unusual position of central venous catheter. Please, not so deep! Pediatr. Anesth. 16, 901–902. https://doi.org/10.1111/j.1460-9592.2006.01940.x

Ceylan Delice, M., Kavrut Ozturk, N., 2025. Radiological evaluation of central venous catheter tip malposition. Chall. J. Perioper. Med. 3, 54. https://doi.org/10.20528/cjpm.2025.02.004

Clar, D.T., Arbor, T.C., Bordoni, B., 2025. Anatomy, Abdomen and Pelvis: Femoral Region, in: StatPearls. StatPearls Publishing, Treasure Island (FL).

De Man, L., Wentzel, M., Van Rooyen, C., Turton, E., 2023. Comparison between ultrasound and chest X-ray to confirm central venous catheter tip position. South Afr. J. Radiol. 27. https://doi.org/10.4102/sajr.v27i1.2587

Fragou, M., Gravvanis, A., Dimitriou, V., Papalois, A., Kouraklis, G., Karabinis, A., Saranteas, T., Poularas, J., Papanikolaou, J., Davlouros, P., Labropoulos, N., Karakitsos, D., 2011. Real-time ultrasound-guided subclavian vein cannulation versus the landmark method in critical care patients: A prospective randomized study*: Crit. Care Med. 39, 1607–1612. https://doi.org/10.1097/CCM.0b013e318218a1ae

Ghanbari Garekani, M., Poopak, A., Pouraliakbar, H., Barghi, A., Omidvar, R., Totonchi, Z., 2025. Is peres formula reliable for determination of proper position of central venous catheter tip in Iranian population? J. Cardiovasc. Thorac. Res. 17, 97–101. https://doi.org/10.34172/jcvtr.025.33436

Ishizuka, M., Nagata, H., Takagi, K., Kubota, K., 2010. Right Internal Jugular Vein Is Recommended for Central Venous Catheterization. J. Invest. Surg. 23, 110–114. https://doi.org/10.3109/08941930903469342

Jahanshahi, F., Parsaei, A., Naderi, D., Zeraatian Nejad Davani, S., Khaleghian, M., 2023. Potentially fatal atrium perforation due to right jugular vein catheterization recognized by venography: A case report. Clin. Case Rep. 11, e6911. https://doi.org/10.1002/ccr3.6911

Akurasi Rumus Peres Sebagai Prediktor Kedalaman Kateter Vena Sentral Kanulasi Subklavia Kanan Pada
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Jayaraman, J., Shah, V., 2019. Bedside prediction of the central venous catheter insertion depth - Comparison of different techniques. J. Anaesthesiol. Clin. Pharmacol. 35, 197–201. https://doi.org/10.4103/joacp.JOACP_125_16

Kamath, M.R., Tiku, S., Gopalakrishnan, M., Kiran, A., 2023. Reliability of intra-atrial ECG method of insertion of central venous line through right internal jugular vein when compared to formula and radiological landmark method: a prospective randomized study. Ain-Shams J. Anesthesiol. 15, 62. https://doi.org/10.1186/s42077-023-00358-y

Kang, M., Bae, J., Moon, S., Chung, T.N., 2021. Chest radiography for simplified evaluation of central venous catheter tip positioning for safe and accurate haemodynamic monitoring: a retrospective observational study. BMJ Open 11, e041101. https://doi.org/10.1136/bmjopen-2020-041101

Keyal, N.K., Thapa, S., Adhikari, P., Yadav, S., 2020. Malposition of Central Venous Catheter Inserted under Ultrasound Guidance in Intensive Care Unit: A Case Series. J. Nepal Med. Assoc. 58. https://doi.org/10.31729/jnma.4655

Kolikof, J., Peterson, K., Williams, C., Baker, A.M., 2025. Central Venous Catheter Insertion.

Korkmaz, U.T.K., Uçaroğlu, E.R., 2021. Catheter Malposition as a Considerable Complication of Central Venous Catheterization: An Analysis of 23 Cases in a Tertiary Referral Hospital. J. Ank. Univ. Fac. Med. 71, 42–47. https://doi.org/10.4274/atfm.galenos.2021.53315

Kouna, N., Noutsos, G., Koufopoulou, C., Panagopoulos, D., Kattamis, A., 2023. Malpositioning of Long-Staying Central Venous Catheters in the Pediatric Population: Incidence and Potential Complications. A Single-Center Retrospective Study and a Narrative Review of the Literature. Med. Res. Arch. 11. https://doi.org/10.18103/mra.v11i4.3752

Kumar, M., 2016. Malposition of Subclavian Venous Catheter Leading to Chest Complications. J. Clin. Diagn. Res. https://doi.org/10.7860/JCDR/2016/19399.7860

Lal, J., Bhardwaj, M., Verma, M., Bansal, T., 2020. A prospective, randomised, comparative study to evaluate long axis, short axis and medial oblique axis approach for ultrasound-guided internal jugular vein cannulation. Indian J. Anaesth. 64, 193–198. https://doi.org/10.4103/ija.IJA_785_19

Lalu, M.M., Fayad, A., Ahmed, O., Bryson, G.L., Fergusson, D.A., Barron, C.C., Sullivan, P., Thompson, C., 2015. Ultrasound-Guided Subclavian Vein Catheterization: A Systematic Review and Meta-Analysis. Crit. Care Med. 43, 1498–1507. https://doi.org/10.1097/CCM.0000000000000973

Lee, J., Park, J.-H., Oh, S., Lee, J.-M., 2024. Optimal Insertion Depth of Central Venous Catheter through the Right Internal Jugular Vein, Verified by Transesophageal Echocardiography: A Prospective Observational Study. Int. J. Med. Sci. 21, 431–438. https://doi.org/10.7150/ijms.86664

Manudeep, A., Manjula, B., Kumar, U.D., 2020. Comparison of Peres’ Formula and Radiological Landmark Formula for Optimal Depth of Insertion of Right Internal Jugular Venous Catheters. Indian J. Crit. Care Med. 24, 527–530. https://doi.org/10.5005/jp-journals-10071-23478

Muñoz-Leija, D., Lozano-Carrillo, L.C., Castillo-Treviño, J.N., Vílchez-Cavazos, J.F., Muñoz-Leija, M.A., Pinales-Razo, R., Guzmán-López, S., Teran-Garza, R., Quiroga-Garza, A., Elizondo-Omaña, R.E., Gutiérrez-de-la-O, J., 2025. Anatomical landmarks and angulation of the subclavian vessels: a CT-based morphometric study of the clavicular safety corridor. Surg. Radiol. Anat. 48, 17. https://doi.org/10.1007/s00276-025-03780-z

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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Nasr-Esfahani, M., Kolahdouzan, M., Mousavi, S., 2016. Inserting central venous catheter in emergency conditions in coagulopathic patients in comparison to noncoagulopathic patients. J. Res. Med. Sci. 21, 120. https://doi.org/10.4103/1735-1995.193511

Panda, S., Baby, S.K.R., Thosani, R., 2021. Evaluation of the Efficacy of Ultrasound in Detecting Correct Placement of Central Venous Catheter and Determining the Elimination of the Need for Chest Radiography. J. Card. Crit. Care TSS 05, 018–022. https://doi.org/10.1055/s-0041-1723747

Peres, P.W., 1990. Positioning central venous catheters--a prospective survey. Anaesth. Intensive Care 18, 536–539. https://doi.org/10.1177/0310057X9001800422

Pittiruti, M., Bertoglio, S., Scoppettuolo, G., Biffi, R., Lamperti, M., Dal Molin, A., Panocchia, N., Petrosillo, N., Venditti, M., Rigo, C., DeLutio, E., 2016. Evidence-Based Criteria for the Choice and the Clinical use of the Most Appropriate Lock Solutions for Central Venous Catheters (Excluding Dialysis Catheters): A GAVeCeLT Consensus. J. Vasc. Access 17, 453–464. https://doi.org/10.5301/jva.5000576

Roldan, C., Paniagua, L., 2015. Central Venous Catheter Intravascular Malpositioning: Causes, Prevention, Diagnosis, and Correction. West. J. Emerg. Med. 16, 658–664. https://doi.org/10.5811/westjem.2015.7.26248

Şahinkaya, H.H., Parlak, M., Tekgul, Z.T., 2022. Assessment of the Tip Position of Central Venous Catheters Inserted Using Peres' Height Formula. Cureus. https://doi.org/10.7759/cureus.31988

Saugel, B., Scheeren, T.W.L., Teboul, J.-L., 2017. Ultrasound-guided central venous catheter placement: a structured review and recommendations for clinical practice. Crit. Care 21, 225. https://doi.org/10.1186/s13054-017-1814-y

Tantri, A.R., Heriwardito, A., Ramila, H.N., 2019. Prediction of optimal right internal jugular vein catheter depth: Comparison between peres' formula and intracavitary ECG. Crit. Care Shock 22, 16–24.

Tanyıldızı, B., 2024. Rare Central Venous Catheter Malpositions: A Case Series. Cureus. https://doi.org/10.7759/cureus.63872

Timsit, J.-F., Baleine, J., Bernard, L., Calvino-Gunther, S., Darmon, M., Dellamonica, J., Desruennes, E., Leone, M., Lepape, A., Leroy, O., Lucet, J.-C., Merchaoui, Z., Mimoz, O., Misset, B., Parienti, J.-J., Quenot, J.-P., Roch, A., Schmidt, M., Slama, M., Souweine, B., Zahar, J.-R., Zingg, W., Bodet-Contentin, L., Maxime, V., 2020. Expert consensus-based clinical practice guidelines management of intravascular catheters in the intensive care unit. Ann. Intensive Care 10, 118. https://doi.org/10.1186/s13613-020-00713-4

Wang, L., Liu, Z.-S., Wang, C.-A., 2016. Malposition of Central Venous Catheter: Presentation and Management. Chin. Med. J. (Engl.) 129, 227–234. https://doi.org/10.4103/0366-6999.173525

Weissbach, A., Gendler, Y., Lakovsky, Y., Kadmon, G., Nahum, E., Kaplan, E., 2020. Routine chest X-ray following ultrasound-guided internal jugular vein catheterization in critically ill children: A prospective observational Study. Pediatr. Anesth. 30, 1378–1383. https://doi.org/10.1111/pan.14030

Žarskus, A., Zykutė, D., Lukoševičius, S., Jankauskas, A., Trepenaitis, D., Macas, A., 2023. Precise Terminology and Specified Catheter Insertion Length in Ultrasound-Guided Infraclavicular Central Vein Catheterization. Medicina (Mex.) 60, 28. https://doi.org/10.3390/medicina60010028