DAFTAR PUSTAKA

Abdulsalam, M. A. A. n.d. “MECHANISMS OF THE STABLE AND VULNERABLE ARTERIAL PLAQUES AND THEIR ASSOCIATIONS WITH THE ARTERIAL WAVEFORMS.”

AciMan DemiRel, Esra, Gülcan Kalayci, Mustafa Açikgöz, Ulufer Çelebi, Bilge CiNar, and Hüsyin Tuğrul Atasoy. 2020. “Evaluation of the Relationship between Silent Cerebral Lesions and Triglyceride/HDL-Cholesterol in Patients with First Stroke Attack.” *Düzce Tıp Fakültesi Dergisi* 22(3):191–95. doi:10.18678/dtfd.737978.

Ahmed, Hind Sh., and Melak S. Mohammed. 2023. “Atherogenic Indices in Type 2 Diabetic Iraqi Patients and Its Association with Cardiovascular Disease Risk.” *Journal of the Faculty of Medicine Baghdad* 65(3):179–86. doi:10.32007/jfacmedbagdad.2075.

Ahn, Sung Soo, Lucy Eunju Lee, Jung Yoon Pyo, Jason Jungsik Song, Yong-Beom Park, and Sang-Won Lee. 2020. “Atherogenic Index of Plasma Predicts Cerebrovascular Accident Occurrence in Antineutrophil Cytoplasmic Antibody-Associated Vasculitis.” *Lipids in Health and Disease* 19(1):184. doi:10.1186/s12944-020-01360-1.

Akbar, M., J. Misbach, A. Yasmar Alfa, T. Syamsudin, MInggrid Tjahjadi, M. Hasnawi Haddani, T. Suwirno Zakaria, A. Basuki Prima Birawa, D. Tugasworo, I. Setyopranoto, T. Eko Purwata, and O. Adnyana I. Made. 2018. “Clinical Features of Transient Ischemic Attack or Ischemic Stroke Patients at High Recurrence Risk in Indonesia.” *Neurology Asia*.

Ali, Babar, Abdullah Amir, Jacob Leonard Ago, and Muhammad Ibtsam Khalid. 2025. “Investigation of the Association between Computed Tomography Hounsfield Units and Cerebral Infarction Phases: A Cross-Sectional Study.”

Alifu, Jiasuer, Lanqing Xiang, Wen Zhang, Penglong Qi, Huiying Chen, Lu Liu, Guoqing Yin, Abdul-Quddus Mohammed, Xian Lv, Tingting Shi, Fuad A. Abdu, and Wenliang Che. 2023. “Association between the Atherogenic Index of Plasma and Adverse Long-Term Prognosis in Patients Diagnosed with Chronic Coronary Syndrome.” *Cardiovascular Diabetology* 22(1). doi:10.1186/s12933-023-01989-z.

Allahverdian, Sima, Ali Cyrus Chehroudi, Bruce M. McManus, Thomas Abraham, and Gordon A. Francis. 2014. “Contribution of Intimal Smooth Muscle Cells to Cholesterol Accumulation and Macrophage-Like Cells in Human Atherosclerosis.” *Circulation* 129(15):1551–59. doi:10.1161/CIRCULATIONAHA.113.005015.

Alzahrani, Awad, Xinyu Zhang, Adel Albukhari, Joanna M. Wardlaw, and Grant Mair. 2023. “Assessing Brain Tissue Viability on Nonenhanced Computed

Tomography After Ischemic Stroke." *Stroke* 54(2):558–66. doi:10.1161/STROKEAHA.122.041241.

Aslan, Muzaffer, Doğaç Okşen, Yunus Emre Yavuz, and Çağdaş Kaynak. 2024. "Atherogenic Plasma Index Is Associated with Ischemıc Cerebrovascular Events Due to Carotid Artery Disease." *Anatolian Current Medical Journal* 6(3):198–202. doi:10.38053/acmj.1448539.

Bier, Georg, Malte N. Bongers, Hendrik Ditt, Benjamin Bender, Ulrike Ernemann, and Marius Horger. 2016a. "Accuracy of Non-Enhanced CT in Detecting Early Ischemic Edema Using Frequency Selective Non-Linear Blending" edited by J.-C. Baron. *PLOS ONE* 11(1):e0147378. doi:10.1371/journal.pone.0147378.

Bier, Georg, Malte N. Bongers, Hendrik Ditt, Benjamin Bender, Ulrike Ernemann, and Marius Horger. 2016b. "Accuracy of Non-Enhanced CT in Detecting Early Ischemic Edema Using Frequency Selective Non-Linear Blending" edited by J.-C. Baron. *PLOS ONE* 11(1):e0147378. doi:10.1371/journal.pone.0147378.

Boncuk Ulaş, Sena, Türkan Acar, Halil Alper Eryılmaz, Esra Ünal, Yeşim Güzey Aras, Eren Kılıç, Hakan Saçlı, Salih Salihi, and Bilgehan Atılgan Acar. 2025. "Can the Atherogenic Index of Plasma (AIP) Be a Prognostic Marker for Good Clinical Outcome After Mechanical Thrombectomy for Acute Ischemic Stroke?" *Diagnostics* 15(8):947. doi:10.3390/diagnostics15080947.

Borén, Jan, M. John Chapman, Ronald M. Krauss, Chris J. Packard, Jacob F. Bentzon, Christoph J. Binder, Mat J. Daemen, Linda L. Demer, Robert A. Hegele, Stephen J. Nicholls, Børge G. Nordestgaard, Gerald F. Watts, Eric Bruckert, Sergio Fazio, Brian A. Ference, Ian Graham, Jay D. Horton, Ulf Landmesser, Ulrich Laufs, Luis Masana, Gerard Pasterkamp, Frederick J. Raal, Kausik K. Ray, Heribert Schunkert, Marja-Riitta Taskinen, Bart Van De Sluis, Olov Wiklund, Lale Tokgozoglu, Alberico L. Catapano, and Henry N. Ginsberg. 2020. "Low-Density Lipoproteins Cause Atherosclerotic Cardiovascular Disease: Pathophysiological, Genetic, and Therapeutic Insights: A Consensus Statement from the European Atherosclerosis Society Consensus Panel." *European Heart Journal* 41(24):2313–30. doi:10.1093/eurheartj/ehz962.

Bowman, Thomas S., Howard D. Sesso, Jing Ma, Tobias Kurth, Carlos S. Kase, Meir J. Stampfer, and J. Michael Gaziano. 2003. "Cholesterol and the Risk of Ischemic Stroke." *Stroke* 34(12):2930–34. doi:10.1161/01.STR.0000102171.91292.DC.

Butcovan, Doina, Veronica Mocanu, Mihai Enache, Beatrice Gabriela Ioan, and Grigore Tinica. 2022. "A Plaque Instability Index Calculated by Histological Marker Analysis of the Endarterectomy Carotid Artery."

Çelik, Ersin, Ahmet Rıfkı Çora, and Kadir Burhan Karadem. 2021. “The Effect of Untraditional Lipid Parameters in the Development of Coronary Artery Disease: Atherogenic Index of Plasma, Atherogenic Coefficient and Lipoprotein Combined Index.” *Journal of the Saudi Heart Association* 33(3):244–50. doi:10.37616/2212-5043.1266.

Chang, Yoonkyung, Soojeong Eom, Minjeong Kim, and Tae-Jin Song. 2023. “Medical Management of Dyslipidemia for Secondary Stroke Prevention: Narrative Review.” *Medicina* 59(4):776. doi:10.3390/medicina59040776.

Cheng, Yuan, Qingqing Wang, Chuanxi Sun, and Di Cui. 2024. “Association Between the Atherogenic Index of Plasma and 90-Day Clinical Prognosis in Patients with Acute Pontine Infarction: A Single Center Study.” *International Journal of General Medicine* Volume 17:3453–63. doi:10.2147/ijgm.s471545.

Coskun, Selcuk, Serkan Demircan, Gul Pamukcu Gunaydin, and Karabekir Ercan. 2025. “Hounsfield Unit Comparison of Opposite Hemispheres in Computed Tomography for Early Diagnosis of Ischemic Stroke.” *The Tohoku Journal of Experimental Medicine* 2025.J017. doi:10.1620/tjem.2025.J017.

Della Corte, Vittoriano, Federica Todaro, Marco Cataldi, and Antonino Tuttolomondo. 2023. “Atherosclerosis and Its Related Laboratory Biomarkers.” *International Journal of Molecular Sciences* 24(21):15546. doi:10.3390/ijms242115546.

Donkor, Eric S. 2018. “Stroke in the 2 1 s t Century: A Snapshot of the Burden, Epidemiology, and Quality of Life.” *Stroke Research and Treatment* 2018:1–10. doi:10.1155/2018/3238165.

Farooque, Umar, Ashok Kumar Lohano, Ashok Kumar, Sundas Karimi, Farah Yasmin, Vijaya Chaitanya Bollampally, and Margil R. Ranpariya. 2020. “Validity of National Institutes of Health Stroke Scale for Severity of Stroke to Predict Mortality Among Patients Presenting With Symptoms of Stroke.” *Cureus*. doi:10.7759/cureus.10255.

Fujihara, Yuki, Takamitsu Nakamura, Takeo Horikoshi, Jun-ei Obata, Daisuke Fujioka, Yosuke Watanabe, Kazuhiro Watanabe, and Kiyotaka Kugiyama. 2019. “Remnant Lipoproteins Are Residual Risk Factor for Future Cardiovascular Events in Patients With Stable Coronary Artery Disease and On-Statin Low-Density Lipoprotein Cholesterol Levels <70 Mg/dL.” *Circulation Journal* 83(6):1302–8. doi:10.1253/circj.CJ-19-0047.

Gaggini, Melania, Francesca Gorini, and Cristina Vassalle. 2022. “Lipids in Atherosclerosis: Pathophysiology and the Role of Calculated Lipid Indices in Assessing Cardiovascular Risk in Patients with

Hyperlipidemia." *International Journal of Molecular Sciences* 24(1):75. doi:10.3390/ijms24010075.

Govind, Arun S., Suresh Sukumar, and Winniecia Dkhar. 2015. "GRADING OF CEREBRAL INFARCTION USING CT-HOUNSFIELD UNIT TO REPORT THE HOUNSFIELD UNIT IN ACUTE, SUBACUTE AND CHRONIC STROKE." *International Journal of Current Research* 7.

"Grigore T. Popa" University of Medicine and Pharmacy Iasi, Romania, and Andreea Clim. 2024. "Atherogenic Index of Plasma (AIP): Can Be a Biomarker for Early Endothelial Dysfunction and Cardiovascular Disease in Experimental Models of Obesity Rats?" *Revista Medico-Chirurgicala* 128(2):290–303. doi:10.22551/MSJ.2024.02.11.

Gu, Yuhang, Chen Zhou, Zhe Piao, Honghua Yuan, Huimin Jiang, Huimin Wei, Yifan Zhou, Guangxian Nan, and Xunming Ji. 2022. "Cerebral Edema after Ischemic Stroke: Pathophysiology and Underlying Mechanisms." *Frontiers in Neuroscience* 16:988283. doi:10.3389/fnins.2022.988283.

Huang, Haomin. 2021. "Atherogenic Index of Plasma Is Related to Coronary Atherosclerotic Disease in Elderly Individuals: A Cross-Sectional Study."

Iadecola, Costantino, Marion S. Buckwalter, and Josef Anrather. 2020. "Immune Responses to Stroke: Mechanisms, Modulation, and Therapeutic Potential." *Journal of Clinical Investigation* 130(6):2777–88. doi:10.1172/JCI135530.

Jebari-Benslaiman, Shifa, Unai Galicia-García, Asier Larrea-Sebal, Javier Rekondo Olaetxea, Iraide Alloza, Koen Vandenbroeck, Asier Benito-Vicente, and César Martín. 2022. "Pathophysiology of Atherosclerosis." *International Journal of Molecular Sciences* 23(6):3346. doi:10.3390/ijms23063346.

Kazi, Sahrish Aieshah, Maimoona Siddiqui, and Sadaf Majid. n.d. "STROKE OUTCOME PREDICTION USING ADMISSION NIHSS IN ANTERIOR AND POSTERIOR CIRCULATION STROKE." *J Ayub Med Coll Abbottabad*.

Keirns, Bryant H., Christina M. Sciarrillo, Nicholas A. Koemel, and Sam R. Emerson. n.d. "Fasting, Non-Fasting and Postprandial Triglycerides for Screening Cardiometabolic Risk."

Khosravi, Arezoo, Masoumeh Sadeghi, Ehsan Shirvani Farsani, Manizheh Danesh, Kiyan Heshmat-Ghahdarijani, Hamidreza Roohafza, and Ali Safaei. 2022. "Atherogenic Index of Plasma: A Valuable Novel Index to Distinguish Patients with Unstable Atherogenic Plaques." *Journal of Research in Medical Sciences*.

Khosravi, Arezoo, Masoumeh Sadeghi, Ehsan Shirvani Farsani, Manizheh Danesh, Kiyan Heshmat-Ghahdarijani, Hamidreza Roohafza, and Ali Safaei. 2022. “Atherogenic Index of Plasma: A Valuable Novel Index to Distinguish Patients with Unstable Atherogenic Plaques.” *Journal of Research in Medical Sciences* 27(1):45. doi:10.4103/jrms.jrms_590_21.

Kim, Eung Yeop, Seung-Koo Lee, Dong Joon Kim, Sang-Hyun Suh, Jinna Kim, Ji Hoe Heo, and Dong Ik Kim. 2005. “Detection of Thrombus in Acute Ischemic Stroke: Value of Thin-Section Noncontrast-Computed Tomography.” *Stroke* 36(12):2745–47. doi:10.1161/01.STR.0000185720.03803.41.

Kim, Jong Youl, Joohyun Park, Ji Young Chang, Sa-Hyun Kim, and Jong Eun Lee. 2016. “Inflammation after Ischemic Stroke: The Role of Leukocytes and Glial Cells.” *Experimental Neurobiology* 25(5):241–51. doi:10.5607/en.2016.25.5.241.

Kementrian Kesehatan, Badan Kebijakan Pengembangan Kesehatan. (2023). Laporan Survei Kesehatan Indonesia 2023. Kementrian Kesehatan Republik Indonesia.

Larsen, Karianne, Henriette S. Jæger, Maren R. Hov, Kjetil Thorsen, Volker Solyga, Christian G. Lund, and Kristi G. Bache. 2022. “Streamlining Acute Stroke Care by Introducing National Institutes of Health Stroke Scale in the Emergency Medical Services: A Prospective Cohort Study.” *Stroke* 53(6):2050–57. doi:10.1161/STROKEAHA.121.036084.

Laufs, Ulrich, Klaus G. Parhofer, Henry N. Ginsberg, and Robert A. Hegele. 2020. “Clinical Review on Triglycerides.” *European Heart Journal* 41(1):99–109c. doi:10.1093/eurheartj/ehz785.

Li, Huifang, Xia Miao, Jiaoying Zhong, and Zhaoming Zhu. 2024. “Atherogenic Index of Plasma as an Early Marker of Chronic Kidney Disease and Liver Injury in Type 2 Diabetes.” *Clinical Medicine Insights: Endocrinology and Diabetes* 17:11795514241259741. doi:10.1177/11795514241259741.

Liu, Hongbing, Kai Liu, Lulu Pei, Shen Li, Jiawei Zhao, Ke Zhang, Ce Zong, Lu Zhao, Hui Fang, Jun Wu, Shilei Sun, Bo Song, Yuming Xu, and Yuan Gao. 2021. “Atherogenic Index of Plasma Predicts Outcomes in Acute Ischemic Stroke.” *Frontiers in Neurology* 12:741754. doi:10.3389/fneur.2021.741754.

Ma, Lijie, Fang Sun, Kaiyi Zhu, Qiuxia Han, and Qianmei Sun. 2024. “The Predictive Value of Atherogenic Index of Plasma, Non- High Density Lipoprotein Cholesterol (Non-HDL-C), Non-HDL-C/HDL-C, and Lipoprotein Combine Index for Stroke Incidence and Prognosis in Maintenance Hemodialysis Patients.” *Clinical Interventions in Aging* Volume 19:1235–45. doi:10.2147/CIA.S461150.

Miao, Mengyuan, Guo Zhou, Anran Bao, Yaming Sun, Huaping Du, Liyan Song, Yongjun Cao, Shoujiang You, and Chongke Zhong. 2022. “Triglyceride-Glucose Index and Common Carotid Artery Intima-Media Thickness in Patients with Ischemic Stroke.” *Cardiovascular Diabetology* 21(1):43. doi:10.1186/s12933-022-01472-1.

Mohr, J et all (2011). n.d. in *Stroke : Patophysiology, Diagnosis, and Management, 5 th edition. ed. Elsevier Saunders*.

Mokin, Maxim, Christopher T. Primiani, Adnan H. Siddiqui, and Aquilla S. Turk. 2017. “ASPECTS (Alberta Stroke Program Early CT Score) Measurement Using Hounsfield Unit Values When Selecting Patients for Stroke Thrombectomy.” *Stroke* 48(6):1574–79. doi:10.1161/STROKEAHA.117.016745.

Muir, Keith W., Jonathan Baird-Gunning, Leighton Walker, Tracey Baird, Michael McCormick, and Shelagh B. Coutts. 2007. “Can the Ischemic Penumbra Be Identified on Noncontrast CT of Acute Stroke?” *Stroke* 38(9):2485–90. doi:10.1161/STROKEAHA.107.484592.

Mundi, Santa, Marika Massaro, Egeria Scoditti, Maria Annunziata Carluccio, Victor W. M. Van Hinsbergh, Marial Luisa Iruela-Arispe, and Raffaele De Caterina. 2018. “Endothelial Permeability, LDL Deposition, and Cardiovascular Risk Factors—a Review.” *Cardiovascular Research* 114(1):35–52. doi:10.1093/cvr/cvx226.

Mushenkova, Nataliya V., Evgeny E. Bezsonov, Varvara A. Orekhova, Tatyana V. Popkova, Antonina V. Starodubova, and Alexander N. Orekhov. 2021. “Recognition of Oxidized Lipids by Macrophages and Its Role in Atherosclerosis Development.” *Biomedicines* 9(8):915. doi:10.3390/biomedicines9080915.

Nam, Ji Sun, Min Kyung Kim, Joo Young Nam, Kahui Park, Shinae Kang, Chul Woo Ahn, and Jong Suk Park. 2020. “Association between Atherogenic Index of Plasma and Coronary Artery Calcification Progression in Korean Adults.” *Lipids in Health and Disease* 19(1):157. doi:10.1186/s12944-020-01317-4.

Nam, Ki-Woong, Hyung-Min Kwon, and Yong-Seok Lee. 2024. “Triglyceride-Related Parameters and Symptomatic Atherosclerotic Lesions in Patients With Ischemic Stroke.” *Journal of Lipid and Atherosclerosis* 13(2):155. doi:10.12997/jla.2024.13.2.155.

Nam, Ki-Woong, Hyung-Min Kwon, Jin-Ho Park, and Hyuktae Kwon. 2022. “The Atherogenic Index of Plasma Is Associated With Cerebral Small Vessel Disease: A Cross-Sectional Study.” *Journal of Lipid and Atherosclerosis* 11(3):262. doi:10.12997/jla.2022.11.3.262.

Nogueira, Ricardo C., Lucy Beishon, Edson Bor-Seng-Shu, Ronney B. Panerai, and Thompson G. Robinson. 2021. “Cerebral Autoregulation in Ischemic Stroke: From Pathophysiology to Clinical Concepts.” *Brain Sciences* 11(4):511. doi:10.3390/brainsci11040511.

Payabvash, S., S. Taleb, J. C. Benson, and A. M. McKinney. 2017. “Acute Ischemic Stroke Infarct Topology: Association with Lesion Volume and Severity of Symptoms at Admission and Discharge.” *American Journal of Neuroradiology* 38(1):58–63. doi:10.3174/ajnr.A4970.

Potreck, A., C. S. Weyland, F. Seker, U. Neuberger, C. Herweh, A. Hoffmann, S. Nagel, M. Bendszus, and M. A. Mutke. 2022. “Accuracy and Prognostic Role of NCCT-ASPECTS Depend on Time from Acute Stroke Symptom-Onset for Both Human and Machine-Learning Based Evaluation.” *Clinical Neuroradiology* 32(1):133–40. doi:10.1007/s00062-021-01110-5.

Puig, J., S. Pedraza, A. Demchuk, J. Daunis-i-Estadella, H. Termes, G. Blasco, G. Soria, I. Boada, S. Remollo, J. Baños, J. Serena, and M. Castellanos. 2012. “Quantification of Thrombus Hounsfield Units on Noncontrast CT Predicts Stroke Subtype and Early Recanalization after Intravenous Recombinant Tissue Plasminogen Activator.” *American Journal of Neuroradiology* 33(1):90–96. doi:10.3174/ajnr.A2878.

Rajashekar, Deepthi, Matthias Wilms, M. Ethan MacDonald, Serena Schimert, Michael D. Hill, Andrew Demchuk, Mayank Goyal, Sean P. Dukelow, and Nils Daniel Forkert. 2022. “Lesion-Symptom Mapping with NIHSS Sub-Scores in Ischemic Stroke Patients.” *Stroke and Vascular Neurology* 7(2):124–31. doi:10.1136/svn-2021-001091.

Ramirez, Lucas, May A. Kim-Tenser, Nerses Sanossian, Steven Cen, Ge Wen, Shuhan He, William J. Mack, and Amytis Towfighi. 2016. “Trends in Acute Ischemic Stroke Hospitalizations in the United States.” *Journal of the American Heart Association* 5(5):e003233. doi:10.1161/JAHA.116.003233.

Ramms, Bastian, Sohan Patel, Xiaoli Sun, Ariane R. Pessentheiner, G. Michelle Ducasa, Adam E. Mullick, Richard G. Lee, Rosanne M. Crooke, Sotirios Tsimikas, Joseph L. Witztum, and Philip L. S. M. Gordts. 2022. “Interventional Hepatic apoC-III Knockdown Improves Atherosclerotic Plaque Stability and Remodeling by Triglyceride Lowering.” *JCI Insight* 7(13):e158414. doi:10.1172/jci.insight.158414.

Rao, Chen, Lei Zhu, Chuanqin Yu, Simin Zhang, Zhiwen Zha, Tong Gu, Xuke Zhang, and Meihai Wen. 2024. “Association of Novel Lipid Indices with the White Matter Hyperintensities in Cerebral Small Vessel Disease: A Cross-Sectional Study.” *Lipids in Health and Disease* 23(1):333. doi:10.1186/s12944-024-02318-3.

Raposeiras-Roubin, Sergio, Xavier Rosselló, Belén Oliva, Leticia Fernández-Friera, José M. Mendiguren, Vicente Andrés, Héctor Bueno, Javier Sanz, Vicente Martínez De Vega, Emad Abu-Assi, Andrés Iñiguez, Antonio Fernández-Ortiz, Borja Ibáñez, and Valentin Fuster. 2021. “Triglycerides and Residual Atherosclerotic Risk.” *Journal of the American College of Cardiology* 77(24):3031–41. doi:10.1016/j.jacc.2021.04.059.

Rehman, Sana, Arsalan Nadeem, Umar Akram, Abeer Sarwar, Ammara Quraishi, Hina Siddiqui, Muhammad Abdullah Javed Malik, Mehreen Nabi, Ihtisham Ul Haq, Andrew Cho, Ishan Mazumdar, Minsoo Kim, Kevin Chen, Sadra Sepehri, Richard Wang, Aneri B. Balar, Dhairya A. Lakhani, and Vivek S. Yedavalli. 2024. “Molecular Mechanisms of Ischemic Stroke: A Review Integrating Clinical Imaging and Therapeutic Perspectives.” *Biomedicines* 12(4):812. doi:10.3390/biomedicines12040812.

Sascău, Radu, Alexandra Clement, Rodica Radu, Cristina Prisacariu, and Cristian Stătescu. 2021. “Triglyceride-Rich Lipoproteins and Their Remnants as Silent Promoters of Atherosclerotic Cardiovascular Disease and Other Metabolic Disorders: A Review.” *Nutrients* 13(6):1774. doi:10.3390/nu13061774.

Šebeková, Katarína, Radana Gurecká, Melinda Csongová, Ivana Koborová, and Peter Celec. 2023. “Association of Atherogenic Index of Plasma with Cardiometabolic Risk Factors and Markers in Lean 14-to-20-Year-Old Individuals: A Cross-Sectional Study.” *Children* 10(7):1144. doi:10.3390/children10071144.

Song, Bo, Yuming Xu, and Yuan Gao. 2021. “Atherogenic Index of Plasma Predicts Outcomes in Acute Ischemic Stroke.” *Frontiers in Neurology* 12.

Sulistiowati, Eva, and Marice Sihombing. 2016. “NCEP-ATP III and IDF Criteria for Metabolic Syndrome Predict Type 2 Diabetes Mellitus.” *Universa Medicina* 35(1):46. doi:10.18051/UnivMed.2016.v35.46-55.

Sun, Hai-Jian, Zhi-Yuan Wu, Xiao-Wei Nie, and Jin-Song Bian. 2020. “Role of Endothelial Dysfunction in Cardiovascular Diseases: The Link Between Inflammation and Hydrogen Sulfide.” *Frontiers in Pharmacology* 10:1568. doi:10.3389/fphar.2019.01568.

Toth, Peter P. 2021. “Triglycerides and Atherosclerosis.” *Journal of the American College of Cardiology* 77(24):3042–45. doi:10.1016/j.jacc.2021.04.058.

Ulloque-Badaracco, Juan R., Enrique A. Hernandez-Bustamante, Esteban A. Alarcon-Braga, Melany D. Mosquera-Rojas, Alvaro Campos-Aspajo, Farley E. Salazar-Valdivia, Valeria A. Valdez-Cornejo, Vicente A. Benites-Zapata, Percy Herrera-Añazco, Germán Valenzuela-Rodríguez, and Adrian V. Hernandez. 2022. “Atherogenic Index of Plasma and Coronary

Artery Disease: A Systematic Review." *Open Medicine* 17(1):1915–26. doi:10.1515/med-2022-0590.

Vekic, Jelena, Aleksandra Zeljkovic, Arrigo F. G. Cicero, Andrej Janez, Anca Pantea Stoian, Alper Sonmez, and Manfredi Rizzo. 2022. "Atherosclerosis Development and Progression: The Role of Atherogenic Small, Dense LDL." *Medicina* 58(2):299. doi:10.3390/medicina58020299.

Venketasubramanian, Narayanaswamy, Byung Woo Yoon, Jeyaraj Pandian, and Jose C. Navarro. 2017. "Stroke Epidemiology in South, East, and South-East Asia: A Review." *Journal of Stroke* 19(3):286–94. doi:10.5853/jos.2017.00234.

Virmani, Renu, Allen P. Burke, Andrew Farb, and Frank D. Kolodgie. n.d. "Pathology of the Vulnerable Plaque." 47(8).

Wang, Limin, Rajan Gill, Theresa L. Pedersen, Laura J. Higgins, John W. Newman, and John C. Rutledge. 2009. "Triglyceride-Rich Lipoprotein Lipolysis Releases Neutral and Oxidized FFAs That Induce Endothelial Cell Inflammation." *Journal of Lipid Research* 50(2):204–13. doi:10.1194/jlr.M700505-JLR200.

Wang, Qian, Dongmei Zheng, Jia Liu, Li Fang, and Qiu Li. 2018. "Atherogenic Index of Plasma Is a Novel Predictor of Non-Alcoholic Fatty Liver Disease in Obese Participants: A Cross-Sectional Study." *Lipids in Health and Disease* 17(1). doi:10.1186/s12944-018-0932-0.

Wang, Qing, Guanghui Jiang, Luxia Yan, Rui Chen, Yufeng Liu, Lu Liu, Xiaoran Zhang, Mengchao Wang, and Liandong Zhao. 2023. "Association of Atherogenic Index of Plasma with Early Neurological Deterioration in Patients with Acute Ischemic Stroke." *Clinical Neurology and Neurosurgery* 234:108014. doi:10.1016/j.clineuro.2023.108014.

Wang, Yue, Shen Wang, Shuaifeng Sun, Fadong Li, Wenxin Zhao, Hongxia Yang, and Xiaofan Wu. 2023. "The Predictive Value of Atherogenic Index of Plasma for Cardiovascular Outcomes in Patients with Acute Coronary Syndrome Undergoing Percutaneous Coronary Intervention with LDL-C below 1.8mmol/L." *Cardiovascular Diabetology* 22(1):150. doi:10.1186/s12933-023-01888-3.

Woo, Min-Hee, Kee Ook Lee, Darda Chung, Jung-Won Choi, Sang-Heum Kim, and Seung-Hun Oh. 2021. "Triglyceride/HDL-Cholesterol Ratio as an Index of Intracranial Atherosclerosis in Nonstroke Individuals." *Frontiers in Neurology* 11:504219. doi:10.3389/fneur.2020.504219.

World Health Organization. (2023). Stroke, Cerebrovascular accident. n.d.

Wu, Sijing, Yanan Gao, Wei Liu, Rutao Wang, Qian Ma, Jiayin Sun, Wei Han, Shuo Jia, Yu Du, Ziwei Zhao, Yuyang Liu, Zhijian Wang, and Yujie Zhou. 2024a. “The Relationship between Atherogenic Index of Plasma and Plaque Vulnerabilities: An Optical Coherence Tomography Study.” *Cardiovascular Diabetology* 23(1):442. doi:10.1186/s12933-024-02532-4.

Wu, Sijing, Yanan Gao, Wei Liu, Rutao Wang, Qian Ma, Jiayin Sun, Wei Han, Shuo Jia, Yu Du, Ziwei Zhao, Yuyang Liu, Zhijian Wang, and Yujie Zhou. 2024b. “The Relationship between Atherogenic Index of Plasma and Plaque Vulnerabilities: An Optical Coherence Tomography Study.” *Cardiovascular Diabetology* 23(1):442. doi:10.1186/s12933-024-02532-4.

Xue, Yuan, Jiachen Ju, Weihua Zhao, Xiaotong Ma, Shan Li, Yuanyuan Zhao, Xiang Wang, Xiaohui Liu, Jifeng Li, Peng Yan, and Qinjian Sun. 2024. “Association between Atherogenic Index of Plasma and Asymptomatic Intracranial Arterial Stenosis in Middle-Aged and Elderly Women: A Cross-Sectional Study in Shandong, China.” *Nutrition, Metabolism, and Cardiovascular Diseases: NMCD* 34(3):598–605. doi:10.1016/j.numecd.2023.09.028.

Ząbczyk, Michał, Joanna Natorska, and Anetta Undas. 2021. “Fibrin Clot Properties in Atherosclerotic Vascular Disease: From Pathophysiology to Clinical Outcomes.” *Journal of Clinical Medicine* 10(13):2999. doi:10.3390/jcm10132999.

Zhang, Bai-Hui, Fan Yin, Ya-Nan Qiao, and Shou-Dong Guo. 2022. “Triglyceride and Triglyceride-Rich Lipoproteins in Atherosclerosis.” *Frontiers in Molecular Biosciences* 9:909151. doi:10.3389/fmolb.2022.909151.

Zhang, Yichi, Zhuchao Wu, Xiaona Li, Jingkai Wei, Qun Zhang, and Jianming Wang. 2022. “Association between the Triglyceride-Glucose Index and Carotid Plaque Incidence: A Longitudinal Study.” *Cardiovascular Diabetology* 21(1):244. doi:10.1186/s12933-022-01683-6.

Zheng, Huancong, Kuangyi Wu, Weiqiang Wu, Guanzhi Chen, Zekai Chen, Zefeng Cai, Zhiwei Cai, Yulong Lan, Shouling Wu, and Youren Chen. 2023. “Relationship between the Cumulative Exposure to Atherogenic Index of Plasma and Ischemic Stroke: A Retrospective Cohort Study.” *Cardiovascular Diabetology* 22(1):313. doi:10.1186/s12933-023-02044-7.

Zhu, Zhengqi, Ru Zhang, Kaixuan Ren, Ruochen Cong, Xiangyang Zhu, Li Zhu, and Tianle Wang. 2021a. “The Prognosis Prediction Significance of Hounsfield Unit Value for Stroke Patients Treated by Intravenous Thrombolysis.” *BMC Medical Imaging* 21(1):62. doi:10.1186/s12880-021-00592-6.

Zhu, Zhengqi, Ru Zhang, Kaixuan Ren, Ruochen Cong, Xiangyang Zhu, Li Zhu, and Tianle Wang. 2021b. “The Prognosis Prediction Significance of Hounsfield Unit Value for Stroke Patients Treated by Intravenous Thrombolysis.” *BMC Medical Imaging* 21(1):62. doi:10.1186/s12880-021-00592-6.

Zöllner, Johann Philipp, Björn Misselwitz, Manfred Kaps, Marco Stein, Jürgen Konczalla, Christian Roth, Karsten Krakow, Helmuth Steinmetz, Felix Rosenow, and Adam Strzelczyk. 2020. “National Institutes of Health Stroke Scale (NIHSS) on Admission Predicts Acute Symptomatic Seizure Risk in Ischemic Stroke: A Population-Based Study Involving 135,117 Cases.” *Scientific Reports* 10(1):3779. doi:10.1038/s41598-020-60628-9.

LAMPIRAN 1

***National Institute Health Stroke Scale* (NIHSS)**

	Kriteria	**Respon dan Skor**
1A	Tingkat Kesadaran	0- Sadar, responsif 1- Mengantuk, dapat dibangunkan dengan stimulus minor. 2- Obtunded, membutuhkan stimulasi berulang atau stimulasi kuat untuk mempertahankan atensi. 3- Koma/Tidak respon/hanya reflex
1B	Tingkat kesadaran Pertanyaan (2 pertanyaan)	0-Menjawab dua pertanyaan dengan benar 1- Menjawab satu pertanyaan dengan benar/terpasang tuba endotrakeal/disartria berat/kendala bahasa. 2- Jawaban kedua pertanyaan salah/afasia/ stupor
1C	Respon terhadap perintah (2 perintah) Perintah buka tutup mata, menggenggam	0- Melakukan kedua perintah dengan benar 1- Melakukan satu perintah dengan benar 2- Melakukan kedua perintah dengan salah/koma
2	Pandangan (*Gaze)* Hanya horizontal gaze yang dinilai	0-Pergerakan horisontal normal 1-*Partial Gaze Palsy*/paresis nervus kranial 2-*Complete Gaze Palsy* (Deviasi konjugat/*gaze palsy*)
3	Lapangan Pandang Pada pasien tidak sadar dapat diperiksa refleks ancam.	0-Tidak ada defek lapangan pandang 1-Hemianopia parsial 2-Hemianopia komplit 3-Bilateral hemianopia
4	Pergerakan Fasial	0-Normal simetris 1- Kelemahan fasial minor (lipatan nasolabial mendatar, asimetris saat tersenyum) 2- Kelemahan fasial parsial (kelamahan total/hampir total wajah bagan bawah) 3- Kelemahan fasial komplit unilateral atau bilateral

		(kelamahan di wajah atas maupun bawah)/koma
5	Fungsi Motorik ekstrimitas atas. a.Kanan b.Kiri Diperiksa dengan meminta pasien ekstensi lengan 90^0 (duduk) atau 45^0 (berbaring)	0- Tidak ada kelamahan. Dapat menahan lengan atau tungkai selama 10 detik. 1- Bergeser turun sebelum 10 detik 2- usaha melawan gravitasi, jatuh menyentuh ranjang 3- Tidak ada usaha melawan gravitasi 4- Tidak ada pergerakan/koma
6	Fungsi motorik Ekstrimitas bawah a.Kanan b.Kiri Pasien diminta mengangkat tungkai 30º	0- Tidak ada kelamahan. Dapat menahan lengan atau tungkai selama 10 detik. 1- Bergeser turun sebelum 10 detik 2- usaha melawan gravitasi, jatuh menyentuh ranjang 3- Tidak ada usaha melawan gravitasi 4- Tidak ada pergerakan/koma
7	Ataxia ekstrimitas Lakukan tes telunjuk hidung dan *heel-shin*	0- Tidak ada ataxia/koma 1- Ataxia pada satu ekstrimitas 2- Ataxia pada dua estrimitas
8	Sensori Dengan tes sensori atau stimulus nyeri pada pasien kesadaran menurun. Pasien afasia atau penurunan kesadaran memiliki nilai 0 atau 1	0- Tidak ada gangguan sensori 1- Gangguan Sensori ringan (hipesthesia) 2- Gangguan sensori berat (anesthesia) / koma
9	Bahasa Dapat dinilai dengan meminta pasien menjabarkan gambar dibawah, menamai benda yang ada di	0- Normal 1- Afasia ringan. Pasien mengalami gangguan kelancaran bicara dan komperhensi, namun tanpa limitasi berat terhadap ekspresi ide. 2- Afasia Berat

	gambar, atau membaca kalimat di bawah.	Seluruh komunikasi dilakukan dengan ekspresi terfragmen, membutuhkan alat bantu, atau tebakan dari pendengar. 3- Mute atau afasia global / koma
10	Artikulasi Pasien diminta menyebutkan kalimat dibaawah	0-Normal 1- Disartria ringan Pasien berbicara tidak jelas pada beberapa kata dan dapat dipahami dengan keterbatasan. 2- Disartria Berat Pasien berbicara tidak jelas, tanpa adanya disfasia atau anarthia. / koma
11	Inatensi / *Extinct* Diperiksa inatensi terhadap domain visual, taktil, auditori, spasial, atau inatensi personal	0- Tidak ada 1- Ringan (Satu modalitas sensori) 2- Berat (Dua Modalitas sensori) / koma

LAMPIRAN 2

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS HASANUDDIN FAKULTAS KEDOKTERAN
KOMITE ETIK PENELITIAN KESEHATAN
RSPTN UNIVERSITAS HASANUDDIN
RSUP Dr. WAHIDIN SUDIROHUSODO MAKASSAR
Sekretariat : Lantai 2 Gedung Laboratorium Terpadu
JL.PERINTIS KEMERDEKAAN KAMPUS TAMALANREA KM.10 MAKASSAR 90245.

Keputusan Protokol Amandemen
No.544/UN4.6.4.5.31/PP36/2025

Nomor Protokol : UH25040247

Judul Protokol : Hubungan Atherogenic Index of Plasma terhadap Hounsfield unit, Jumlah lesi serebral dan derajat keparahan pada pasien stroke iskemik akut	
Nama Peneliti	: dr. Arifian Wijaya Lana Putra
Institusi	Bagian Neurologi Universitas Hasanuddin
Review Protokol Amandemen Ya ☑ Tidak ☐	Tanggal review sebelumnya 26 Mei 2025
Tanggal Fullboard	-
Keputusan	☒ Disetujui ☐ Disetujui dengan Modifikasi amandemen dan informed consent ☐ Dihentikan, sambil menunggu informasi lanjut (3) ☐ Butuh informasi lanjut, tetap berjalan dengan protokol sebelumnya (4) ☐ Ditolak, bisa lanjut dengan persetujuan sebelumnya (5)
Tempat Penelitian :	RSUP dr. Wahidin Sudirohusodo dan Jejaring Makassar
No. Versi Protokol	1
No. Versi Informed Consent	

No.	Nama Reviewer	Keputusan				
		1	2	3	4	5
1		✓				

Makassar, 31 Juli 2025

Ketua

Prof. dr. Muh Nasrum Massi, PhD,SpMK(K)
NIP 196709101996031001

Sekretaris

dr.Firdaus Hamid,PhD,SpMK
NIP 197712312002121002

LAMPIRAN 3
Nilai Cut Off

Coordinates of the Curve

Test Result Variable(s):IAP

Positive if Greater Than or Equal To[a]	Sensitivity	1 - Specificity	Spesifisitas
-1.38400	1.000	1.000	.000
-.34750	1.000	.985	.015
-.28850	1.000	.969	.031
-.25900	1.000	.954	.046
-.24600	1.000	.938	.062
-.23950	1.000	.923	.077
-.23000	1.000	.908	.092
-.20100	1.000	.892	.108
-.17500	1.000	.877	.123
-.16800	1.000	.862	.138
-.16300	1.000	.846	.154
-.15300	1.000	.831	.169
-.14450	1.000	.815	.185
-.12400	1.000	.800	.200
-.09900	1.000	.785	.215
-.08800	1.000	.769	.231
-.08050	1.000	.754	.246
-.07450	1.000	.738	.262
-.07150	1.000	.723	.277
-.06500	1.000	.708	.292
-.03950	1.000	.692	.308
-.01950	1.000	.662	.338
-.01100	1.000	.646	.354
-.00100	1.000	.631	.369
.00350	1.000	.615	.385
.00700	1.000	.600	.400
.00850	1.000	.585	.415
.01050	1.000	.569	.431
.01250	1.000	.554	.446
.02000	1.000	.538	.462
.03000	1.000	.523	.477
.03550	1.000	.508	.492
.04050	1.000	.477	.523
.04750	1.000	.462	.538
.05400	1.000	.446	.554
.05850	1.000	.431	.569
.06600	1.000	.415	.585
.07450	.988	.415	.585
.08050	.988	.400	.600
.08850	.988	.369	.631
.09450	.976	.369	.631

.10600	.976	.354	.646
.12100	.976	.338	.662
.13100	.976	.323	.677
.13850	.976	.308	.692
.14050	.976	.292	.708
.14350	.976	.277	.723
.14650	.976	.262	.738
.14850	.964	.262	.738
.15450	.964	.246	.754
.16200	.964	.231	.769
.16600	.952	.231	.769
.16750	.952	.215	.785
.17200	.928	.215	.785
.17650	.928	.200	.800
.17750	.928	.185	.815
.18050	.928	.169	.831
.19000	.916	.169	.831
.19850	.916	.154	.846
.20450	.916	.138	.862
.21400	.904	.123	.877
.21950	.904	.108	.892
.22150	.904	.092	.908
.22600	.892	.092	.908
.23050	.880	.092	.908
.23250	.867	.077	.923
.23400	.855	.077	.923
.23650	.843	.077	.923
.23850	.831	.077	.923
.24200	.819	.077	.923
.24600	.807	.077	.923
.24800	.795	.077	.923
.24950	.783	.077	.923
.25050	.771	.077	.923
.25250	.759	.077	.923
.25450	.735	.077	.923
.25550	.723	.077	.923
.26000	.723	.062	.938
.26550	.711	.062	.938
.26750	.699	.062	.938
.27850	.687	.062	.938
.28950	.675	.062	.938
.29250	.663	.062	.938
.29850	.651	.062	.938
.30500	.639	.062	.938
.31100	.614	.062	.938
.31550	.602	.062	.938
.31850	.590	.062	.938
.32400	.578	.062	.938
.32950	.566	.062	.938
.33350	.554	.062	.938
.33900	.542	.062	.938
.34400	.530	.062	.938

.35100	.518	.062	.938
.35900	.506	.062	.938
.36600	.494	.062	.938
.37600	.482	.062	.938
.38300	.482	.046	.954
.38450	.470	.046	.954
.38550	.458	.046	.954
.38700	.446	.046	.954
.38850	.434	.046	.954
.38950	.422	.046	.954
.39150	.410	.046	.954
.39450	.398	.046	.954
.39700	.386	.046	.954
.40300	.373	.046	.954
.41300	.361	.046	.954
.42850	.349	.046	.954
.44550	.313	.046	.954
.45450	.301	.046	.954
.46900	.289	.046	.954
.48150	.277	.046	.954
.48350	.265	.046	.954
.49350	.253	.046	.954
.50800	.241	.046	.954
.51500	.229	.046	.954
.52350	.217	.046	.954
.53300	.205	.046	.954
.53700	.193	.046	.954
.53950	.181	.046	.954
.54300	.157	.046	.954
.55250	.145	.046	.954
.56350	.133	.046	.954
.57350	.133	.031	.969
.58000	.120	.031	.969
.59250	.108	.031	.969
.60650	.096	.015	.985
.62200	.084	.015	.985
.63550	.072	.015	.985
.68700	.060	.015	.985
.78050	.036	.015	.985
.86550	.024	.015	.985
.97050	.012	.015	.985
1.09800	.000	.015	.985
2.16300	.000	.000	1.000

LAMPIRAN IV HASIL SPSS
Uji normalitas

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
USIA	.093	148	.003	.973	148	.005
NIHSS	.162	148	.000	.914	148	.000
AIP	.047	148	.200*	.986	148	.159
HU	.130	148	.000	.960	148	.000
HDL	.042	148	.200*	.989	148	.296
TG	.130	148	.000	.850	148	.000

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
USIAX	.129	148	.000	.900	148	.000
NIHSSX	.146	148	.000	.932	148	.000
HUX	.173	148	.000	.935	148	.000
TGX	.049	148	.200*	.989	148	.329

a. Lilliefors Significance Correction

*. This is a lower bound of the true significance.

Variabel Numerik

Descriptives

			Statistic	Std. Error
USIA	Mean		59.05	.961
	95% Confidence Interval for Mean	Lower Bound	57.15	
		Upper Bound	60.95	
	5% Trimmed Mean		59.40	
	Median		61.00	
	Variance		136.677	
	Std. Deviation		11.691	
	Minimum		21	
	Maximum		85	
	Range		64	
	Interquartile Range		14	
	Skewness		-.579	.199
	Kurtosis		.550	.396
NIHSS	Mean		12.14	.720
	95% Confidence Interval for Mean	Lower Bound	10.72	
		Upper Bound	13.56	
	5% Trimmed Mean		11.76	
	Median		10.00	
	Variance		76.708	
	Std. Deviation		8.758	
	Minimum		1	
	Maximum		34	
	Range		33	
	Interquartile Range		14	
	Skewness		.509	.199
	Kurtosis		-.951	.396

IAP	Mean		.24098	.021651
	95% Confidence Interval for Mean	Lower Bound	.19819	
		Upper Bound	.28377	
	5% Trimmed Mean		.23542	
	Median		.23850	
	Variance		.069	
	Std. Deviation		.263390	
	Minimum		-.384	
	Maximum		1.163	
	Range		1.547	
	Interquartile Range		.335	
	Skewness		.356	.199
	Kurtosis		.763	.396
HU	Mean		18.7703	.41363
	95% Confidence Interval for Mean	Lower Bound	17.9528	
		Upper Bound	19.5877	
	5% Trimmed Mean		18.7553	
	Median		20.0000	
	Variance		25.321	
	Std. Deviation		5.03200	
	Minimum		10.00	
	Maximum		28.007	
	Range		18.00	
	Interquartile Range		7.00	
	Skewness		-.087	.199
	Kurtosis		-.891	.396
HDL	Mean		36.66	1.002
	95% Confidence Interval for Mean	Lower Bound	34.68	
		Upper Bound	38.64	
	5% Trimmed Mean		36.47	
	Median		36.00	

	Variance	148.554	
	Std. Deviation	12.188	
	Minimum	10	
	Maximum	73	
	Range	63	
	Interquartile Range	17	
	Skewness	.230	.199
	Kurtosis	.257	.396
TG	Mean	149.96	5.728
	95% Confidence Interval for Mean Lower Bound	138.64	
	95% Confidence Interval for Mean Upper Bound	161.28	
	5% Trimmed Mean	143.68	
	Median	135.50	
	Variance	4855.617	
	Std. Deviation	69.682	
	Minimum	54	
	Maximum	567	
	Range	513	
	Interquartile Range	76	
	Skewness	2.085	.199
	Kurtosis	8.205	.396

Variabel Kategorik

GRADE AIP

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	46	31.1	31.1	31.1
	2	19	12.8	12.8	43.9
	3	83	56.1	56.1	100.0
	Total	148	100.0	100.0	

GRADE HU

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	INFARK AKUT	83	56.1	56.1	56.1
	INFARK SUB AKUT	65	43.9	43.9	100.0
	Total	148	100.0	100.0	

GRADE NIHSS

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	MINOR	46	31.1	31.1	31.1
	MODERATE	42	28.4	28.4	59.5
	MOD-SEV	39	26.4	26.4	85.8
	SEVERE	21	14.2	14.2	100.0
	Total	148	100.0	100.0	

KEL USIA

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	18-25 tahun	2	1.4	1.4	1.4
	26-35 tahun	3	2.0	2.0	3.4
	36-45 tahun	15	10.1	10.1	13.5
	46-55 tahun	26	17.6	17.6	31.1
	56-65 tahun	63	42.6	42.6	73.6
	>65 tahun	39	26.4	26.4	100.0
	Total	148	100.0	100.0	

JUMLAH LESI

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1.00	50	33.8	33.8	33.8
	>1	98	66.2	66.2	100.0
	Total	148	100.0	100.0	

ONSET

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	<24hr	72	48.6	48.6	48.6
	>=24hr	76	51.4	51.4	100.0
	Total	148	100.0	100.0	

JK

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	LK	82	55.4	55.4	55.4
	PR	66	44.6	44.6	100.0
	Total	148	100.0	100.0	

Uji korelatif
AIP vs HU (Spearman)

Correlations

			IAP	HU
Spearman's rho	AIP	Correlation Coefficient	1.000	.621**
		Sig. (2-tailed)	.	.000
		N	148	148
	HU	Correlation Coefficient	.621**	1.000
		Sig. (2-tailed)	.000	.
		N	148	148

**. Correlation is significant at the 0.01 level (2-tailed).

AIP vs JL (Gamma)

Symmetric Measures

	Value	Asymp. Std. Error[a]	Approx. T[b]	Approx. Sig.
Ordinal by Gamma Ordinal	.611	.105	4.422	.000
N of Valid Cases	148			

a. Not assuming the null hypothesis.

b. Using the asymptotic standard error assuming the null hypothesis.

AIP vs NIHSS (Spearman)

Correlations

			IAP	NIHSS
Spearman's rho	AIP	Correlation Coefficient	1.000	.601**
		Sig. (2-tailed)	.	.000
		N	148	148
	NIHSS	Correlation Coefficient	.601**	1.000
		Sig. (2-tailed)	.000	.
		N	148	148

**. Correlation is significant at the 0.01 level (2-tailed).

AIP	G-AIP	HU	G-HU	NIHSS	G-NIHSS	JL	USIA	G-USIA	HDL	TG	JK	ONSET
-0,24	1	11	2	1	1	1	57	5	41	54	2	2 hr
-0,266	1	13	2	4	1	1	63	5	54	67	1	1 hr
-0,221	1	17	2	4	1	1	57	5	69	95	2	1 hari
0,012	1	10	2	3	1	1	77	6	48	113	2	2 hr
0,168	2	20	1	5	2	2	70	6	56	189	1	4 hari
0,095	1	10	2	5	1	1	70	6	33	94	1	3 hr
0,636	3	20	1	22	3	2	65	5	22	218	2	1 hr
0,418	3	23	1	18	3	2	78	6	24	144	2	3 hr
0,581	3	24	1	28	4	2	65	5	19	166	2	1 hari
0,308	3	22	1	22	3	2	60	5	26	121	1	1 hr
0,183	1	22	1	5	1	2	67	6	45	157	1	6 hari
0,232	1	17	2	5	1	2	57	5	46	180	1	7 hari
0,535	3	22	1	18	3	2	65	5	20	157	2	1 hr
0,559	3	21	1	25	4	1	46	4	36	299	2	1 hari
-0,147	1	14	2	14	2	1	68	6	49	80	1	1 hr
0,061	1	12	2	13	2	1	63	5	47	124	2	6 hr
0,384	3	25	1	22	3	2	61	5	35	194	2	4 hr
0,268	3	24	1	20	3	2	40	3	28	119	1	2 hr
0,223	3	28	1	25	4	2	41	3	35	134	1	7 nr
0,514	3	23	1	25	4	2	54	4	42	314	1	1 hr
0,117	2	18	2	10	2	2	55	4	37	111	1	1 hr
-0,019	1	18	2	3	1	1	57	5	41	90	1	4hr
0,336	3	20	1	22	4	1	62	5	33	164	2	1 hr
0,25	3	19	1	22	4	2	68	6	27	110	1	2 hr
0,342	3	25	1	29	4	2	67	6	31	156	2	1 hr
0,531	3	21	1	18	3	2	52	4	27	210	1	1 hr
0,389	3	23	1	15	3	2	42	3	31	174	1	1 hari
0,457	3	27	1	25	4	1	52	4	32	210	2	12 jam
0,177	2	14	2	6	2	2	63	5	25	86	1	1hari
0,013	1	15	2	2	1	1	56	5	36	85	2	2 hr
0,546	3	22	1	22	4	2	69	6	18	145	2	1 hr
0,125	2	13	2	9	2	2	75	6	35	107	2	3 hr
0,137	2	12	2	2	1	2	54	4	43	135	1	1 hari
0,008	1	18	2	2	1	1	57	5	54	126	2	1 hari
0,078	1	18	2	3	1	1	52	4	35	96	1	3 hr
0,485	3	26	1	22	3	1	64	5	27	189	1	4 hr
0,22	1	12	2	10	2	1	54	4	45	171	1	1 hr
0,235	3	19	1	18	3	2	43	3	30	118	2	7 hr
0,328	3	28	1	28	4	1	40	3	41	200	1	2 hr

0,396	3	27	1	22	3	1	54	4	40	228	2	1 hr
0,165	2	22	1	10	2	2	32	2	52	174	2	1 hr
0,245	3	21	1	22	4	2	34	2	37	149	1	1 hr
-0,071	1	15	2	7	2	1	82	6	54	105	2	2 hr
0,167	2	19	2	10	2	2	62	5	33	111	2	4 hr
-0,252	1	15	2	8	2	1	62	5	53	68	2	3 hr
-0,384	1	18	2	11	2	2	71	6	73	69	1	1 hr
0,539	3	19	1	27	4	2	59	5	39	309	1	2 hr
0,356	3	20	1	17	3	1	62	5	25	130	1	1 hr
0,052	1	12	2	8	2	2	65	5	48	124	1	1 hr
0,033	1	16	2	11	2	1	64	5	38	94	2	1 hr
0,256	1	12	2	15	3	2	57	5	45	186	1	1 hr
0,141	2	18	2	11	2	2	61	5	35	111	2	2 hr
0,219	1	12	2	4	1	2	68	6	48	182	2	1 hr
-0,239	1	11	2	3	1	2	77	6	53	70	2	1 hr
0,398	3	27	1	15	3	2	69	6	18	103	1	3 hr
0,239	3	20	1	16	3	2	80	6	32	127	1	1 hr
0,408	3	22	1	17	3	2	70	6	22	129	1	7 hr
-0,092	1	10	2	2	1	2	54	4	34	63	2	3 hr
0,238	3	28	1	8	2	2	64	5	25	99	1	1 hr
0,094	3	27	1	5	1	1	56	5	45	128	2	3 hr
0,37	3	28	1	9	2	2	64	5	27	145	2	2 hr
0,254	3	23	1	20	3	2	70	6	27	111	2	1 hari
0,056	1	11	2	2	1	1	73	6	33	86	1	1 hr
0,232	3	21	1	28	4	1	51	4	21	82	1	1 hr
0,516	3	22	1	28	4	2	53	4	44	331	1	1 hr
0,635	3	20	1	18	3	1	64	5	25	247	2	2 hr
0,346	3	21	1	18	3	2	79	6	24	122	1	7 hr
0,331	3	21	1	2	1	1	56	5	32	157	1	1 hr
0,604	3	12	2	18	3	2	61	5	15	138	1	1 hr
1,033	3	21	1	14	2	2	58	5	10	247	2	3 hr
0,314	3	19	1	19	3	2	61	5	39	184	1	1 hr
-0,169	1	15	2	8	2	2	62	5	49	76	1	3 hr
0,15	2	16	2	12	2	2	71	6	43	139	2	2 hr
0,568	3	15	2	22	3	2	25	1	17	144	1	4 hr
0,027	1	10	2	7	2	2	52	4	39	95	1	3 hr
0,147	2	28	1	2	1	1	37	3	52	167	2	1 hr
0,393	3	20	1	19	3	2	52	4	44	249	1	1 HR
0,2	2	14	2	6	2	2	58	5	38	138	2	1 HARI
0,006	1	10	2	8	2	2	57	5	34	79	1	2 HR

0,385	3	27	1	18	3	2	51	4	25	139	1	2 hr
0,255	3	22	1	5	1	1	55	4	25	103	2	5 hr
0,609	3	20	1	3	1	2	56	5	32	298	1	2 hr
-0,084	1	10	2	1	1	1	46	4	45	85	1	2hr
1,163	3	17	2	7	2	1	53	4	17	567	2	7 hr
0,043	2	15	2	5	1	2	80	6	47	119	2	5 jam
0,54	3	20	1	3	1	2	36	3	34	270	1	12 jam
0,146	2	12	2	5	1	1	36	5	62	199	2	2 hr
0,382	3	11	2	10	2	1	69	6	23	127	2	2hr
0,178	2	17	2	4	1	2	63	5	42	145	1	15 jam
0,439	3	20	1	20	3	2	67	6	31	195	2	12 jam
0,229	3	21	1	16	3	2	64	5	36	140	2	2 hr
0,604	3	20	1	12	2	2	85	6	10	92	2	2 hr
0,249	3	21	1	21	3	2	43	3	42	171	1	3 hari
-0,159	1	12	2	1	1	1	48	4	73	116	1	12 jam
0,308	3	25	1	29	4	2	72	6	26	121	1	1 hr
0,482	3	23	1	19	3	2	58	5	36	250	1	6 jam
-0,142	1	18	2	3	1	2	63	5	46	76	1	3 hr
0,038	1	11	2	6	2	1	43	3	38	95	1	3 hr
0,254	3	22	1	7	2	2	64	5	43	177	1	1 hr
0,197	2	11	2	4	1	2	70	6	36	130	2	3hr
0,386	3	20	1	4	1	2	72	6	47	262	2	2hr
0,481	3	22	1	4	1	2	34	2	17	118	1	7 hr
0,738	3	28	1	18	3	2	68	6	11	138	1	3hr
0,247	3	20	1	19	3	2	75	6	40	162	2	1hr
-0,106	1	13	2	2	1	1	61	5	44	79	1	1 hr
0,038	1	13	2	6	2	2	57	5	32	80	1	1 hr
0,159	2	15	2	2	1	2	50	4	36	119	1	4 hr
0,264	3	20	1	1	1	1	42	3	34	143	2	2 hr
0,738	3	20	1	33	4	2	64	5	11	138	2	4hr
0,29	3	20	1	18	3	2	55	4	36	161	2	5hr
0,32	3	21	1	4	1	2	49	4	28	134	1	10 jam
0,251	3	24	1	6	2	2	53	4	46	188	1	6 jam
0,39	3	20	1	6	2	2	57	5	32	180	1	1 hr
0,009	1	14	2	3	1	1	63	5	50	117	2	3 hr
-0,003	1	16	2	5	1	1	56	5	54	123	1	6 jam
-0,072	1	10	2	5	1	2	59	5	51	99	1	1 hr
0,302	3	20	1	19	3	2	62	5	39	179	1	2 hr
0,452	3	22	1	29	4	2	62	5	39	253	2	4 hr
0,176	2	15	2	5	2	2	59	5	48	165	1	6 jam

0,083	1	14	2	2	1	2	54	4	57	158	2	1 hr
-0,02	1	16	2	8	2	1	72	6	43	94	2	1 hari
0,823	3	23	1	8	2	2	45	3	20	305	2	3 hr
0,439	3	20	1	27	4	2	36	3	30	189	1	1 hr
0,168	3	25	1	5	1	1	56	5	40	135	1	2 hr
0,267	3	25	1	25	4	2	64	5	29	123	2	4 hr
-0,167	1	10	2	2	1	1	38	3	50	78	2	3 hr
-0,311	1	12	2	1	1	1	66	6	58	65	2	3 hr
0,388	3	22	1	20	3	2	70	6	20	112	1	1 hr
0,502	3	23	1	7	2	2	68	6	29	211	1	2 hr
0,54	3	22	1	18	3	2	57	5	32	254	1	10 jam
0,071	3	26	1	18	3	1	67	6	40	108	1	4 hr
0,579	3	25	1	23	3	2	74	6	22	191	1	2 hr
0,317	3	21	1	19	3	2	71	6	24	114	2	1 hr
0,289	3	24	1	8	2	1	52	4	37	165	2	6 jam
0,233	3	20	1	21	3	2	43	3	36	141	2	7 hr
-0,181	1	15	2	10	2	2	21	1	43	65	1	7 hr
0,209	3	20	1	19	3	2	63	5	44	163	2	1 hr
0,295	3	24	1	10	2	2	51	4	44	199	2	3 hr
0,001	1	15	2	1	1	1	65	5	34	78	1	1 hr
-0,077	1	17	2	2	1	1	70	6	49	94	1	1hr
0,14	2	18	2	8	2	2	64	5	31	98	1	20 jam
0,362	3	23	1	34	4	2	45	3	29	153	1	2 hr
0,209	2	13	2	6	2	2	63	5	44	163	2	1 hr
0,083	1	18	2	4	1	1	63	5	49	136	2	1 hr
0,439	3	27	1	2	1	2	63	5	37	233	1	7 hr
-0,059	1	12	2	6	2	1	77	6	34	68	1	5 hr
-0,02	1	16	2	6	2	1	62	5	53	116	2	3 hr
0,908	3	20	1	28	4	2	63	5	18	334	1	7 hr