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DAFTAR PUSTAKA

Asensio, M., Ortiz-Rivero, S., Morente-Carrasco, A. & Marin, J.J.G. 2022. Etiopathogenesis and pathophysiology of cholestasis. *Exploration of Digestive Diseases*. (October, 31):97–117. DOI: 10.37349/edd.2022.00008.

Atharva Raut*, R.B. 2025. Pathophysiology and Management of Gallbladder Stones: Current Clinical Insights. (October, 24). DOI: 10.5281/ZENODO.17431120.

Behar, J. 2013. Physiology and Pathophysiology of the Biliary Tract: The Gallbladder and Sphincter of Oddi—A Review. *ISRN Physiology*. 2013:1–15. DOI: 10.1155/2013/837630.

Dahlan, M.S. 2016. *Statistik untuk Kedokteran dan Kesehatan*. 6th ed. Jakarta: Epidemiologi Indonesia.

Domeyer, P.J., Sergentanis, T.N., Zagouri, F., Tzilalis, B., Mouzakioti, E., Parasi, A., Nonni, A., Mariolis, A., et al. 2008. Chronic cholecystitis in elderly patients. Correlation of the severity of inflammation with the number and size of the stones. *In Vivo*. 22(2):269–272.

Feldman, M. 2020. *Sleisenger and Fordtran's Gastrointestinal and Liver Disease E-Book: Pathophysiology, Diagnosis, Management*. 11th ed ed. Philadelphia: Elsevier.

Finch, W., Johnston, R., Shaida, N., Winterbottom, A. & Wiseman, O. 2014. Measuring stone volume – three-dimensional software reconstruction or an ellipsoid algebra formula? *BJU International*. 113(4):610–614. DOI: 10.1111/bju.12456.

Geraghty, R., Pietropaolo, A., Tzelves, L., Lombardo, R., Jung, H., Neisius, A., Petrik, A., Somani, B.K., et al. 2025. Which Measure of Stone Burden is the Best Predictor of Interventional Outcomes in Urolithiasis: A Systematic Review and Meta-analysis by the YAU Urolithiasis Working Group and EAU Urolithiasis Guidelines Panel. *European Urology Open Science*. 71:22–30. DOI: 10.1016/j.euros.2024.10.024.

Giannini, E., Risso, D., Botta, F., Chiarbonello, B., Fasoli, A., Malfatti, F., Romagnoli, P., Testa, E., et al. 2003. Validity and Clinical Utility of the Aspartate Aminotransferase–Alanine Aminotransferase Ratio in Assessing Disease Severity and Prognosis in Patients With Hepatitis C Virus–Related Chronic Liver Disease. *Archives of Internal Medicine*. 163(2):218. DOI: 10.1001/archinte.163.2.218.

Hansen, T.W.R., Wong, R.J. & Stevenson, D.K. 2020. Molecular Physiology and Pathophysiology of Bilirubin Handling by the Blood, Liver, Intestine, and Brain in the Newborn. *Physiological Reviews*. 100(3):1291–1346. DOI: 10.1152/physrev.00004.2019.

Hopfer, K. & Ziessman, H. 2011. Nuclear medicine hepatobiliary imaging (cholescintigraphy). *Gastrointestinal Endoscopy*. 74(2):375–377. DOI: 10.1016/j.gie.2011.06.017.

Housset, C., Chrétien, Y., Debray, D. & Chignard, N. 2016. Functions of the Gallbladder. In *Comprehensive Physiology*. 1st ed. R. Terjung, Ed. Wiley. 1549–1577. DOI: 10.1002/cphy.c150050.

UNIVERSITAS GADJAH MADA
Korelasi antara Volume Kandung Empedu, Jumlah Batu, dan Volume Batu pada Pemeriksaan MRCP terhadap Gangguan Fungsi Hati Pasien dengan Obstruksi Bilier akibat Cholecystolithiasis dan/atau Choledocholithiasis
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Huang, S.-M. 2010. Pathophysiological significance of gallbladder volume changes in gallstone diseases. *World Journal of Gastroenterology*. 16(34):4341. DOI: 10.3748/wjg.v16.i34.4341.

Kao, C.-T., Seagar, R., Heathcock, D., Tacey, M., Lai, J.M., Yong, T., Houli, N., Bird, D., et al. 2021. Factors That Predict the Success of Laparoscopic Common Bile Duct Exploration for Choledocholithiasis: A 10-Year Study. *Surgical Laparoscopy, Endoscopy & Percutaneous Techniques*. 31(5):565–570. DOI: 10.1097/SLE.0000000000000938.

Karthika, P., Selvamuthukumaran, S., Kumar, P.G., Sreedevi, B. & Swarnkar, A. 2025. Contracted or Vanishing Gallbladder: A Case Report. *Cureus*. (May, 19). DOI: 10.7759/cureus.84382.

Khatiwada, S., Adhikari, B.N. & Shakya, S. 2017. Cadaveric Study on the Length and Diameter of the Hepatic Ducts. *International Journal of Health Sciences*. (12).

Kim, T.K., Kim, B.S., Kim, J.H., Ha, H.K., Kim, P.N., Kim, A.Y. & Lee, M.-G. 2002. Diagnosis of Intrahepatic Stones: Superiority of MR Cholangiopancreatography over Endoscopic Retrograde Cholangiopancreatography. *American Journal of Roentgenology*. 179(2):429–434. DOI: 10.2214/ajr.179.2.1790429.

Kipp, Z.A., Pauss, S.N., Martinez, G.J., Hinds, T.D. & Lee, W.-H. 2025. Bilirubin Hepatic and Intestinal Transport and Catabolism: Physiology, Pathophysiology, and Benefits. *Antioxidants*. 14(11):1326. DOI: 10.3390/antiox14111326.

Le Fèvre, C., Sun, R., Cebula, H., Thiery, A., Antoni, D., Schott, R., Proust, F., Constans, J.-M., et al. 2022. Ellipsoid calculations versus manual tumor delineations for glioblastoma tumor volume evaluation. *Scientific Reports*. 12(1):10502. DOI: 10.1038/s41598-022-13739-4.

Mandarano, G. & Sim, J. 2008. The diagnostic MRCP examination: overcoming technical challenges to ensure clinical success. *Biomedical Imaging and Intervention Journal*. 4(4). DOI: 10.2349/biij.4.4.e28.

Mencarini, L., Vestito, A., Zagari, R.M. & Montagnani, M. 2024. New Developments in the Ultrasonography Diagnosis of Gallbladder Diseases. *Gastroenterology Insights*. 15(1):42–68. DOI: 10.3390/gastroent15010004.

Mercer, S., Singh, S. & Paterson, I. 2007. Selective MRCP in the management of suspected common bile duct stones. *HPB*. 9(2):125–130. DOI: 10.1080/13651820701216190.

Molvar, C. & Glaenzer, B. 2016. Choledocholithiasis: Evaluation, Treatment, and Outcomes. *Seminars in Interventional Radiology*. 33(04):268–276. DOI: 10.1055/s-0036-1592329.

Nikolaidis, P., Hammond, N.A., Day, K., Yaghmai, V., Wood, C.G., Mosbach, D.S., Harmath, C.B., Taffel, M.T., et al. 2014. Imaging Features of Benign and Malignant Ampullary and Periampullary Lesions. *RadioGraphics*. 34(3):624–641. DOI: 10.1148/rg.343125191.

O'Connor, O.J. & Maher, M.M. 2011. Imaging of Cholecystitis. *American Journal of Roentgenology*. 196(4):W367–W374. DOI: 10.2214/AJR.10.4340.

UNIVERSITAS GADJAH MADA
Korelasi antara Volume Kandung Empedu, Jumlah Batu, dan Volume Batu pada Pemeriksaan MRCP terhadap Gangguan Fungsi Hati Pasien dengan Obstruksi Bilier akibat Cholecystolithiasis dan/atau Choledocholithiasis
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O'Connor, O.J., O'Neill, S. & Maher, M.M. 2011. Imaging of Biliary Tract Disease. *American Journal of Roentgenology*. 197(4):W551–W558. DOI: 10.2214/AJR.10.4341.

Olokoba, A.B., Bojuwoye, B.J., Olokoba, L.B., Wahab, K.W., Salami, A.K. & Inikori, A.K. 2008. THE RELATIONSHIP BETWEEN GALLSTONE DISEASE AND GALL BLADDER VOLUME.

Ozkan, M. 2023. The Gallbladder and Extrahepatic Biliary Tract: Anatomy and Variations. In *Gallbladder - Anatomy, Pathogenesis, and Treatment*. A. ElGeidie, Ed. IntechOpen. DOI: 10.5772/intechopen.1002045.

Petrosyan, M., Estrada, J.J., Chan, S., Rosen, H., Berne, T.V. & Mason, R.J. 2009. Natural Progression of Biochemical Markers of Biliary Tract Obstruction in Patients with Gallstone Pancreatitis. *Gastroenterology Research and Practice*. 2009:1–6. DOI: 10.1155/2009/820749.

Qiao, T., Ma, R., Luo, X., Yang, L., Luo, Z. & Zheng, P. 2013. The Systematic Classification of Gallbladder Stones. *PLoS ONE*. 8(10):e74887. DOI: 10.1371/journal.pone.0074887.

Rajesh, R., Sangameshwar, A., Tan, Y.Y., Teh Kim Jun, K., Tham, T.Y. & Cheah Chang Chuen, M. 2024. Approach to Abnormal Liver Biochemistries in the Primary Care Setting. *Cureus*. (March, 20). DOI: 10.7759/cureus.56541.

Reshetnyak, V.I. 2012. Concept of the pathogenesis and treatment of cholelithiasis. *World Journal of Hepatology*. 4(2):18. DOI: 10.4254/wjh.v4.i2.18.

Sanders, D.J., Bomman, S., Krishnamoorthi, R. & Kozarek, R.A. 2021. Endoscopic retrograde cholangiopancreatography: Current practice and future research. *World Journal of Gastrointestinal Endoscopy*. 13(8):260–274. DOI: 10.4253/wjge.v13.i8.260.

Saxena, D. 2024. Intrabiliary pressure in the pathophysiology of extra hepatic biliary obstruction. *Hepatology Forum*. 198–203. DOI: 10.14744/hf.2023.2023.0066.

Sharma, H., Gupta, G. & Sharma, M.K. 2015. Correlation of Gallstone Characteristics with the Clinical Parameters in Cases of Cholelithiasis. 4.

Stinton, L.M. & Shaffer, E.A. 2012. Epidemiology of Gallbladder Disease: Cholelithiasis and Cancer. *Gut and Liver*. 6(2):172–187. DOI: 10.5009/gnl.2012.6.2.172.

Sun, H., Warren, J., Yip, J., Ji, Y., Hao, S., Han, W. & Ding, Y. 2022. Factors Influencing Gallstone Formation: A Review of the Literature. *Biomolecules*. 12(4):550. DOI: 10.3390/biom12040550.

Tai, M., Chen, L., He, Y., Wang, F. & Tian, Z. 2024. Ultrasonographic evaluation of the gallbladder motor function in the diagnosis and prognosis of intrahepatic cholestasis of pregnancy. *BMC Pregnancy and Childbirth*. 24(1):17. DOI: 10.1186/s12884-023-06209-w.

Tonolini, M., Ravelli, A., Villa, C. & Bianco, R. 2012. Urgent MRI with MR cholangiopancreatography (MRCP) of acute cholecystitis and related complications: diagnostic role and spectrum of imaging findings. *Emergency Radiology*. 19(4):341–348. DOI: 10.1007/s10140-012-1038-z.

Vlasenko, D., Maccagno, A., Sanna, A., Papadakis, T., Shiplu, S.A., Schmid, R., Gärtner, U., Märkl, B., et al. 2026. Histological, ultrastructural, and

UNIVERSITAS GADJAH MADA
Korelasi antara Volume Kandung Empedu, Jumlah Batu, dan Volume Batu pada Pemeriksaan MRCP terhadap Gangguan Fungsi Hati Pasien dengan Obstruksi Bilier akibat Cholecystolithiasis dan/atau Choledocholithiasis
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

single-cell profiling reveal immune-mediated remodeling in gallbladder inflammation. *Cell and Tissue Research*. 403(3):30. DOI: 10.1007/s00441-026-04057-6.

Wang, X. & Li, Z. 2025. Management of common bile duct stones: a comprehensive review. *Frontiers in Surgery*. 12:1658784. DOI: 10.3389/fsurg.2025.1658784.

Wong, H., Chiu, Y., Shiu, B. & Ho, L. 2012. Preoperative MRCP to detect choledocholithiasis in acute calculous cholecystitis. *Journal of Hepato-Biliary-Pancreatic Sciences*. 19(4):458–464. DOI: 10.1007/s00534-011-0456-8.

Yokoe, M., Hata, J., Takada, T., Strasberg, S.M., Asbun, H.J., Wakabayashi, G., Kozaka, K., Endo, I., et al. 2018. Tokyo Guidelines 2018: diagnostic criteria and severity grading of acute cholecystitis (with videos). *Journal of Hepato-Biliary-Pancreatic Sciences*. 25(1):41–54. DOI: 10.1002/jhbp.515.

Yuen, W.Y.R., Piteša, R., McHugh, T., Poole, G. & Singh, P.P. 2023. Liver function tests as predictors of choledocholithiasis: a scoping review. *AME Surgical Journal*. 3:35–35. DOI: 10.21037/asj-23-2.