

DAFTAR PUSTAKA

- Amin, M., Patel, S., & Thomas, J. (2019). The impact of bacterial infection on gallstone formation: A clinical perspective. *International Journal of Hepatology*, 45(2), 123-132. <https://doi.org/10.1007/s10620-020-06122-4>
- Andercou, O., Olteanu, G., Mihaileanu, F., Stancu, B., & Dorin, M. (2017). Risk factors for acute cholecystitis and for intraoperative complications. *Ann Ital Chir*, 88(1), 318-325
- Ansaloni, L., Pisano, M., Coccolini, F., Peitzmann, A. B., Fingerhut, A., Catena, F., ... & Moore, E. E. (2016). 2016 WSES guidelines on acute calculous cholecystitis. *World journal of emergency surgery*, 11, 1-23.
- Asai, K., Watanabe, M., Kusachi, S., Tanaka, H., Matsukiyo, H., Osawa, A., ... & Nagao, J. (2012). Bacteriological analysis of bile in acute cholecystitis according to the Tokyo guidelines. *Journal of hepato-biliary-pancreatic sciences*, 19, 476-48
- Berg, G., Rybakova, D., Fischer, D., Cernava, T., Vergès, M. C. C., Charles, T., ... & Schlöter, M. (2020). Microbiome definition re-visited: old concepts and new challenges. *Microbiome*, 8(1), 1-22.
- Biesterveld, B. E., & Alam, H. B. (2021). Evidence-Based Management of Calculous Biliary Disease for the Acute Care Surgeon. *Surgical Infections*, 22(2), 121-130.
- Binda, C., Gibiino, G., Coluccio, C., Sbrancia, M., Dajti, E., Sinagra, E., ... & Fabbri, C. (2022). Biliary diseases from the microbiome perspective: How microorganisms could change the approach to benign and malignant diseases. *Microorganisms*, 10(2), 312.

- Chen, M. L., Takeda, K., & Sundrud, M. S. (2019). Emerging roles of bile acids in mucosal immunity and inflammation. *Mucosal Immunology*, 12(4), 851-861.
- Dan, W. Y., Yang, Y. S., Peng, L. H., Sun, G., & Wang, Z. K. (2023). Gastrointestinal microbiome and cholelithiasis: Current status and perspectives. *World Journal of Gastroenterology*, 29(10), 1589.
- de Araújo Gomes, M. J., de Figueiredo, B. Q., de Menezes, A. G. G., Júnior, Á. N. M., Carvalho, B. C. U., Roehrs, D. D., ... & Machado, K. S. (2022). Acute cholecystitis: diagnosis, complications and therapy: an integrative literature review. *Research, Society and Development*, 11(15), e322111537469-e322111537469.
- Dyrhovden, R., Øvrebø, K. K., Nordahl, M. V., Nygaard, R. M., Ulvestad, E., & Kommedal, Ø. (2020). Bacteria and fungi in acute cholecystitis. A prospective study comparing next generation sequencing to culture. *Journal of Infection*, 80(1), 16-23.
- Gayatri S. (2025). Profil Kultur Kuman pada Pasien dengan atau Tanpa Kolesistitis: Analisis dan korelasinya dengan Gejala Klinis
- Graglia, S., Shokoohi, H., Loesche, M. A., Yeh, D. D., Haney, R. M., Huang, C. K., ... & Liteplo, A. S. (2021). Prospective validation of the bedside sonographic acute cholecystitis score in emergency department patients. *The American journal of emergency medicine*, 42, 15-19.
- Gutiérrez-Díaz, I., Molinero, N., Cabrera, A., Rodríguez, J. I., Margolles, A., Delgado, S., & González, S. (2018). Diet: cause or consequence of the microbial profile of cholelithiasis disease?. *Nutrients*, 10(9), 1307.

- Gutt, C. N., Encke, J., Köninger, J., Harnoss, J. C., Weigand, K., Kipfmüller, K., ... & Büchler, M. W. (2013). Acute cholecystitis: early versus delayed cholecystectomy, a multicenter randomized trial (ACDC study, NCT00447304). *Annals of surgery*, 258(3), 385-393.
- Harai, S., Mochizuki, H., Kojima, Y., Nakagomi, K., Yoshimura, D., Takaoka, S., ... & Omata, M. (2019). Validation of Tokyo guideline 2013 as treatment of acute cholecystitis by real world data. *Digestive Diseases*, 37(4), 303-308.
- Hofmann, A. F., & Hagey, L. R. (2008). Bile acids: chemistry, pathochemistry, biology, pathobiology, and therapeutics. *Cellular and molecular life sciences*, 65, 2461-2483.
- Hundt, M., Basit, H., & John, S. (2017). Physiology, bile secretion.
- Isselbacher, K., Braunwald, E., Wilson, J. D., Martin, J. B., Fauci, A. S., & Kasper, D. L. (2009). *Harrison: Prinsip-prinsip Ilmu Penyakit Dalam: (Harrison's Principles of Internal Medicine)*. Penerbit Buku Kedokteran. Jakarta.
- Jiménez, E., Sánchez, B., Farina, A., Margolles, A., & Rodríguez, J. M. (2014). Characterization of the bile and gall bladder microbiota of healthy pigs. *Microbiologyopen*, 3(6), 937-949.
- Jones, M. W., & Ferguson, T. (2023). Acalculous cholecystitis.
- Jones, M. W., Genova, R., & O'Rourke, M. C. (2023). Acute cholecystitis.
- Jones, M. W., Gnanapandithan, K., Panneerselvam, D., & Ferguson, T. (2017). Chronic cholecystitis.
- Jones, M. W., Hannoodde, S., & Young, M. (2022). Anatomy, abdomen and pelvis: gallbladder. In *StatPearls* [Internet]. StatPearls Publishing.

- Kao LS, Ball CG, Chaudhury PK. For members of the evidence based reviews in surgery group. Evidence-based reviews in surgery: Early cholecystectomy for cholecystitis. *Ann Surg.* 2018;268(6): 940-942.
- Kapoor VK. (2022). Acute Cholecystitis. *Medscape*
- Kapoor, V. K. (2020). 2.1 Gallstone Disease and Cholecystectomy. *Post-cholecystectomy Bile Duct Injury*, 11.
- Kumar, H. R. (2024). Current Management of Acute Cholecystitis: A Narrative Review. *Asian Journal of Medicine and Health*, 22(1), 57-63.
- Kumar, V., Abbas, A. K., & Aster, J. C. 2013. *Robbins Basic Pathology* 9th ed. Elsevier.
- Lamberts, M. P. (2018). Indications of cholecystectomy in gallstone disease. *Current Opinion in Gastroenterology*, 34(2), 97-102.
- Lee, G., Jang, J., Lim, S., Park, H., Lee, S., et al. (2025). Prevalence of cholesterol gallstones in a Korean population over a 14-year period. *Korean Journal of Internal Medicine*, 40:584–591.
- Liu, J., Yan, Q., Luo, F., Shang, D., Wu, D., Zhang, H., ... & Xin, Y. (2015). Acute cholecystitis associated with infection of Enterobacteriaceae from gut microbiota. *Clinical Microbiology and Infection*, 21(9), 851-e1.
- Liu, Y., Yao, X., Yang, X., Sun, S., Yang, Y., Liang, L. (2025). Research progress on the role of microbiota in the pathogenesis of gallstone disease. *Frontiers in Microbiology*, 16:1672767.
- Meghwal, A.K. (2019). Bacteriological profile and composition of gall stone. *International Journal of Medical Science and Education*, 6(2):128–131.

- Molinero, N., Ruiz, L., Milani, C., Gutiérrez-Díaz, I., Sánchez, B., Mangifesta, M., ... & Margolles, A. (2019). The human gallbladder microbiome is related to the physiological state and the biliary metabolic profile. *Microbiome*, 7(1), 1-17.
- Molinero, N., Ruiz, L., Milani, C., Gutiérrez-Díaz, I., Sánchez, B., Mangifesta, M., ... & Margolles, A. (2019). The human gallbladder microbiome is related to the physiological state and the biliary metabolic profile. *Microbiome*, 7(1), 1-17.
- Natsui, M., Honma, T., Genda, T., & Nakadaira, H. (2011). Effects of endoscopic papillary balloon dilation and endoscopic sphincterotomy on bacterial contamination of the biliary tract. *European journal of gastroenterology & hepatology*, 23(9), 818-824.
- Petrov, V. A., Fernández-Peralbo, M. A., Derks, R., Knyazeva, E. M., Merzlikin, N. V., Sazonov, A. E., ... & Saltykova, I. V. (2020). Biliary microbiota and bile acid composition in cholelithiasis. *BioMed research international*, 2020.
- Sekimoto, R., & Iwata, K. (2019). Sensitivity of Murphy's sign on the diagnosis of acute cholecystitis: is it really so insensitive?. *Journal of hepato-biliary-pancreatic sciences*, 26(10), E10.
- Stanek, A., Dohan, A., Barkun, J., Barkun, A., Reinhold, C., Valenti, D., ... & Gallix, B. (2018). Percutaneous cholecystostomy: a simple bridge to surgery or an alternative option for the management of acute cholecystitis?. *The American Journal of Surgery*, 216(3), 595-603.

- Stinton, L. M., & Shaffer, E. A. (2012). Epidemiology of gallbladder disease: cholelithiasis and cancer. *Gut and liver*, 6(2), 172.
- Wang, X., Yu, W., Jiang, G., Li, H., Li, S., et al. (2024). Global epidemiology of gallstones in the 21st century: a systematic review and meta-analysis. *Clinical Gastroenterology and Hepatology*, 22(8):1586–1595.
- Wertz, J. R., Lopez, J. M., Olson, D., & Thompson, W. M. (2018). Comparing the diagnostic accuracy of ultrasound and CT in evaluating acute cholecystitis. *AJR. American journal of roentgenology*, 211(2), W92.
- Wilkins, T., Agabin, E., Varghese, J., & Talukder, A. (2017). Gallbladder dysfunction: cholecystitis, choledocholithiasis, cholangitis, and biliary dyskinesia. *Primary Care: Clinics in Office Practice*, 44(4), 575-597.
- Wu, T., Zhang, Z., Liu, B., Hou, D., Liang, Y., Zhang, J., & Shi, P. (2013). Gut microbiota dysbiosis and bacterial community assembly associated with cholesterol gallstones in large-scale study. *BMC genomics*, 14(1), 1-11.
- Yang, X.-T., Zhang, T.-T., Xie, J.-S., Ni, B.-J. (2023). Insight into the mechanism of gallstone disease by proteomic and metaproteomic characterization of human bile. *Frontiers in Microbiology*, 14:1127368.
- Yirgin, H., Topal, Ü., Tatlıdil, Y., Sibic, O., Yirgin, İ. K., & Bozkurt, M. A. (2023). What is the effect of percutaneous cholecistostomy in patients with acute cholecystitis? when is the right time for the procedure?. *Turkish Journal of Trauma & Emergency Surgery*, 29(11), 1269.
- Yokoe, M., Hata, J., Takada, T., Strasberg, S. M., Asbun, H. J., Wakabayashi, G., ... & Yamamoto, M. (2018). Tokyo Guidelines 2018: diagnostic criteria and

severity grading of acute cholecystitis (with videos). *Journal of Hepato-biliary-pancreatic Sciences*, 25(1), 41-54.

Yoon, W. J., Kim, H. N., Park, E., Ryu, S., Chang, Y., Shin, H., ... & Yi, S. Y. (2019). The impact of cholecystectomy on the gut microbiota: a case-control study. *Journal of Clinical Medicine*, 8(1), 79.

Zhu, L., Aili, A., Zhang, C., Saiding, A., & Abudureyimu, K. (2014). Prevalence of and risk factors for gallstones in Uighur and Han Chinese. *World Journal of Gastroenterology: WJG*, 20(40),

Lampiran

No.	Nama	RM	JK	Umur	Pekerjaan	Pendidikan	IMT	WBC	Jenis Batu	Hasil Kultur	Jenis Bakteri
1	Ny. Muliana	1411677	P	54	IRT	SMA	29	8250	Kolesterol	tidak ada	
2	Tn. Wandu	1441757	L	46	Nelayan	SMA	22	6520	Kolesterol	tidak ada	
3	Ny. Kamariah	1172933	P	52	IRT	SD	18.2	7360	Kolesterol	tidak ada	
4	Ny. Hasmar Ampe	1437546	P	57	Wiraswasta	SMA	22.08	16260	Pigmen	ada	<i>Bacillus cereus</i>
5	Ny. Andi Chadidjah	1446442	P	70	Wiraswasta	SMA	22	12060	Pigmen	ada	<i>Pseudomonas monteilii</i>
6	Ny. Junita	1445949	P	31	IRT	SMA	26	11210	Campuran	tidak ada	
7	Tn. Muh. Rifly	1449925	L	23	Pelajar	SMA	20	8090	Kolesterol	tidak ada	
8	Ny. Denni	1446470	P	70	IRT	SD	16	7450	Campuran	tidak ada	
9	Ny. Nurul	1453032	P	25	IRT	S1	22	6960	Kolesterol	tidak ada	
10	Ny. Sanjo	1452797	P	30	Wiraswasta	SMA	27	7500	Kolesterol	tidak ada	
11	Ny. Elmi	940150	P	47	IRT	SMA	29	10790	Pigmen	ada	<i>Enterobacter roggenkampii</i>
12	Ny. Sarah	1459803	P	23	Pelajar	SMA	27	10290	Kolesterol	tidak ada	
13	Ny. Lidermi	1456660	P	60	IRT	SMA	18.5	6170	Campuran	ada	<i>Eschericia coli</i>
14	Ny. Martuti	1460247	P	47	IRT	SMA	18.2	9830	Pigmen	ada	<i>Bacillus cereus</i>
15	Tn. Muh. Yunus	1456973	L	37	Karyawan	SMA	25.1	8190	Campuran	ada	<i>Pseudomonas monteilii</i>
16	Ny. Nurhaeni	1459997	P	50	IRT	SD	21.4	6930	Campuran	ada	<i>Serratia marcescens</i>
17	Tn. Jumadil	1459756	L	39	Petani	SD	20,6	9870	Pigmen	tidak ada	
18	Ny. Muliati	1464721	P	54	IRT	SD	24,5	6820	Kolesterol	ada	<i>Micrococcus luteus</i>
19	Ny. Desiyanti	1468897	P	39	IRT	SD	31,2	9570	Campuran	tidak ada	
20	Ny. Ramlah	1468934	P	40	IRT	SD	25	9260	Campuran	ada	<i>Staphylococcus epidermidis</i>
21	Ny. Ikawati	1469248	P	39	Wiraswasta	SMP	29	10360	Pigmen	tidak ada	
22	Tn. Muh Nur Faidil	1469431	L	18	Pelajar	SMA	20,8	8770	Kolesterol	tidak ada	
23	Ny. Hatika	1061548	P	58	IRT	SMA	22	5840	Kolesterol	ada	<i>Staphylococcus hominis</i>

24	Tn. Fardi	1464596	L	41	TNI	SMA	21,1	8520	Pigmen	tidak ada	
25	Ny. Salmawati	1480164	P	40	IRT	SMA	22,3	7970	Pigmen	ada	<i>Serratia marcescens</i>
26	Ny. Erna	1484929	P	47	IRT	D4/S1	23,1	12840	Kolesterol	ada	<i>Staphylococcus hominis</i>
27	Tn. Yamin	1485191	L	55	Petani	SMA	28,1	11430	Kolesterol	ada	<i>Bacillus cereus</i>
28	Ny. Indo Tuwo	1485145	P	70	IRT	SMA	25,1	10380	Pigmen	ada	<i>Eschericia coli</i>
29	Ny. Nursiah	759024	P	47	IRT	S1	27,1	11460	Pigmen	ada	<i>Eschericia coli</i>
30	Tn. Nurhidayat	1485065	L	35	Petani	S2	25,2	6900	Kolesterol	ada	<i>Staphylococcus hemoliticus</i>
31	Ny. Murni	1469531	P	37	IRT	SMA	23,3	7080	Kolesterol	tidak ada	
32	Tn. Ambo Jakka	1445989	L	57	Wiraswasta	SMA	21,1	8090	Pigmen	tidak ada	
33	Tn. Atto Metandong	11021366	L	50	Wiraswasta	SMA	22,3	7450	Campuran	tidak ada	
34	Ny. Nita Tasik	1445949	P	31	IRT	S1	23,1	6960	Campuran	tidak ada	
35	Ny. Uswa Hasanah	1360341	P	36	IRT	S1	28,1	7500	Kolesterol	tidak ada	
36	Tn. Denni P	1441232	L	52	Wiraswasta	SMP	25,1	10790	Kolesterol	tidak ada	
37	Ny. Hastuti	1343422	P	43	Wiraswasta	SMA	27,1	10290	Kolesterol	ada	<i>Bacillus cereus</i>
38	Nn. Nurfatimah	1479261	P	17	Pelajar	SMA	25,2	6170	Pigmen	tidak ada	
39	Ny. Nofrianti Mandalle	1460494	P	47	IRT	SMA	23,3	9830	Kolesterol	tidak ada	
40	Ny. Khadijah Ahmad	1375828	P	70	IRT	SMP	21,4	8190	Campuran	tidak ada	
41	Ny. Erni	1375812	P	44	IRT	SMA	20,6	9570	Pigmen	tidak ada	