

## DAFTAR PUSTAKA

- Aggarwal, K., Bhamrah, M., & Ryait, H. (2019). Detection of cirrhosis through ultrasound imaging by intensity difference technique. *Eurasip Journal on Image and Video Processing*, 2019(1). <https://doi.org/10.1186/s13640-019-0482-z>
- Alam, N., Asriyani, S., Murtala, B., Latief, N., Bahar, B., & As Daud, N. 2021. Perbandingan Gambaran Ultrasonography Gray Scale dan Doppler Parenkim Hepar Berdasarkan Scoring System dengan Pemeriksaan Fibroscan pada Pasien Hepatitis B Kronis. *Majalah Sainstekes*, 8(2), 103–112. <https://doi.org/10.33476/ms.v8i2.2101>
- Angelsen, J., Horn, A., Eide, G., & Viste, A. (2014). Surgery for colorectal liver metastases: the impact of resection margins on recurrence and overall survival. *World Journal of Surgical Oncology*, 12(1), 127. <https://doi.org/10.1186/1477-7819-12-127>
- Anwar, H., Mutmainnah, M., & Samad, I. (2018). Analysis of platelet count on fibrosis degree in chronic hepatitis b patients. *Indonesian Journal of Clinical Pathology and Medical Laboratory*, 24(2), 165–168. <https://doi.org/10.24293/ijcpml.v24i2.1318>
- Assawarachan, S., Chuchalermporn, P., Maneesaay, P., & Thengchaisri, N. (2019). Evaluation of hepatobiliary ultrasound scores in healthy dogs and dogs with liver diseases. *Veterinary World*, 12(8), 1266–1272. <https://doi.org/10.14202/vetworld.2019.1266-1272>
- Berger, A., Shili, S., Zuberbuhler, F., Hiriart, J., Lannes, A., Chermak, F., ... & Boursier, J. (2019). Liver stiffness measurement with fibroscan: use the right probe in the right conditions!. *Clinical and Translational Gastroenterology*, 10(4), e00023. <https://doi.org/10.14309/ctg.0000000000000023>
- Berzigotti, A., & Piscaglia, F. 2011. Ultrasound in portal hypertension--part 1. *Ultraschall in der Medizin (Stuttgart, Germany : 1980)*, 32(6), 548–571. <https://doi.org/10.1055/s-0031-1281856>
- Berzigotti, A., Piscaglia, F., & EFSUMB Education and Professional Standards Committee 2012. Ultrasound in portal hypertension--part 2--and EFSUMB recommendations for the performance and reporting of ultrasound examinations in portal hypertension. *Ultraschall in der Medizin (Stuttgart, Germany : 1980)*, 33(1), 8–31. <https://doi.org/10.1055/s-0031-1299145>
- Berzigotti, A., Tsochatzis, E., Boursier, J., Castera, L., Cazzagon, N., Friedrich-Rust, M., Petta, S., & Thiele, M. (2021). EASL Clinical Practice Guidelines on non-invasive tests for evaluation of liver disease severity and prognosis – 2021 update. *Journal of Hepatology*, 75(3), 659–689. <https://doi.org/10.1016/j.jhep.2021.05.025>

- Bird, J., Brahm, G., Fung, C., Sebastian, S., & Kirkpatrick, I. (2020). Recommendations for the management of incidental hepatobiliary findings in adults: endorsement and adaptation of the 2017 and 2013 acr incidental findings committee white papers by the canadian association of radiologists incidental findings working group. *Canadian Association of Radiologists Journal*, 71(4), 437-447. <https://doi.org/10.1177/0846537120928349>
- Bonekamp, S., Kamel, I., Solga, S., & Clark, J. (2009). Can imaging modalities diagnose and stage hepatic fibrosis and cirrhosis accurately?. *Journal of Hepatology*, 50(1), 17-35. <https://doi.org/10.1016/j.jhep.2008.10.016>
- Bureau, C., Metivier, S., Peron, J. M., Selves, J., Robic, M. A., Gourraud, P. A., Rouquet, O., Dupuis, E., Alric, L., & Vinel, J. P. 2008. Transient elastography accurately predicts presence of significant portal hypertension in patients with chronic liver disease. *Alimentary pharmacology & therapeutics*, 27(12), 1261–1268. <https://doi.org/10.1111/j.1365-2036.2008.03701.x>
- Chan, A. W., Wong, G. L., Chan, H. Y., Tong, J. H., Yu, Y. H., Choi, P. C., Chan, H. L., To, K. F., & Wong, V. W. 2017. Concurrent fatty liver increases risk of hepatocellular carcinoma among patients with chronic hepatitis B. *Journal of gastroenterology and hepatology*, 32(3), 667–676. <https://doi.org/10.1111/jgh.13536>
- Chan, H. L., Wong, G. L., Choi, P. C., Chan, A. W., Chim, A. M., Yiu, K. K., Chan, F. K., Sung, J. J., & Wong, V. W. 2009. Alanine aminotransferase-based algorithms of liver stiffness measurement by transient elastography (Fibroscan) for liver fibrosis in chronic hepatitis B. *Journal of viral hepatitis*, 16(1), 36–44. <https://doi.org/10.1111/j.1365-2893.2008.01037.x>
- Chen, J., Wu, D., Wang, M., Chen, E., Bai, L., Liu, C., Liao, J., & Tang, H. 2016. Controlled attenuation parameter for the detection of hepatic steatosis in patients with chronic hepatitis B. *Infectious diseases (London, England)*, 48(9), 670–675. <https://doi.org/10.3109/23744235.2016.1165860>
- Cheng, Y., Yu, C., Ou, H., Tsang, L., Huang, T., Chen, T., ... & Chen, C. (2014). Section 1. image evaluation of fatty liver in living donor liver transplantation. *Transplantation*, 97(Supplement 8S), S3-S6. <https://doi.org/10.1097/01.tp.0000446265.42019.f3>
- Cheng, Y., Wang, Y. J., Kao, W. Y., Chen, P. H., Huo, T. I., Huang, Y. H., ... & Wu, J. C. (2013). Inverse association between hepatitis b virus infection and fatty liver disease: a large-scale study in populations seeking for check-up. *PLoS ONE*, 8(8), e72049. <https://doi.org/10.1371/journal.pone.0072049>
- Choong, C. C., Venkatesh, S. K., & Siew, E. P. 2012. Accuracy of routine clinical ultrasound for staging of liver fibrosis. *Journal of clinical imaging science*, 2, 58. <https://doi.org/10.4103/2156-7514.101000>
- Chu, C., Liaw, Y., Sheen, I., Lin, D., & Huang, M. (2007). Sex difference in chronic hepatitis b virus infection: an appraisal based on the status of hepatitis b e

antigen and antibody. *Hepatology*, 3(6), 947-950.  
<https://doi.org/10.1002/hep.1840030611>

Davoudi, Y., Layegh, P., Sima, H., Tatari, S., & Faghani, R. 2015. Diagnostic Value of Conventional and Doppler Ultrasound Findings in Liver Fibrosis in Patients with Chronic Viral Hepatitis. *Journal of Medical Ultrasound*, 23(3), 123–128. <https://doi.org/10.1016/j.jmu.2014.10.002>

El-Kader, S. and Al-Dahr, M. (2016). Impact of weight reduction program on serum alanine aminotransferase activity and immunologic response in obese hepatitis b patients. *African Health Sciences*, 16(1), 128. <https://doi.org/10.4314/ahs.v16i1.17>

Elwir, S., Hal, H., Veith, J., Schreiber, I., Kadry, Z., & Riley, T. (2015). Radiographical findings in patients with liver cirrhosis and hepatic encephalopathy. *Gastroenterology Report*, 4(3), 221-225. <https://doi.org/10.1093/gastro/gov049>

Eminler, A., Uslan, M., Ayyildiz, T., Irak, K., Kiyici, M., Gürel, S., ... & Nak, S. (2015). Mean platelet volume is an important predictor of hepatitis c but not hepatitis b liver damage. *Journal of Research in Medical Sciences*, 20(9), 865. <https://doi.org/10.4103/1735-1995.170609>

Fateh, S., Mohammed, N., Mahmood, K., Hasan, Y., Tahir, S., Kakamad, F., ... & Hussein, D. (2023). Sonographic measurement of splenic size and its correlation with body parameters. *Medicine International*, 3(1). <https://doi.org/10.3892/mi.2023.67>

Fraquelli, M., Rigamonti, C., Casazza, G., Conte, D., Donato, M. F., Ronchi, G., & Colombo, M. 2007. Reproducibility of transient elastography in the evaluation of liver fibrosis in patients with chronic liver disease. *Gut*, 56(7), 968-973. <https://doi.org/10.1136/gut.2006.111302>

Friedrich-Rust, M., Buggisch, P., Knecht, R., Dries, V., Shi, Y., Matschenz, K., ... & Sarrazin, C. (2012). Acoustic radiation force impulse imaging for non-invasive assessment of liver fibrosis in chronic hepatitis b. *Journal of Viral Hepatitis*, 20(4), 240-247. <https://doi.org/10.1111/j.1365-2893.2012.01646.x>

Gani, R.A., Hasan, I., Djumhana, A., and Setiawan, P.B. (2017). Konsensus Nasional Penatalaksanaan Hepatitis B Di Indonesia. Jakarta: *Perhimpunan Peneliti Hati Indonesia*.

Guptha, N. and Patil, K. (2018). Detection of macro and micro nodule using online region based-active contour model in histopathological liver cirrhosis. *International Journal of Intelligent Engineering and Systems*, 11(2), 256-265. <https://doi.org/10.22266/ijies2018.0430.28>

Hashemi, A., Alavian, M., & Gholami-Fesharaki, M. 2016. Assessment of transient elastography (FibroScan) for diagnosis of fibrosis in non-alcoholic fatty liver disease: A systematic review and meta-analysis. *Caspian Journal of Internal*

*Medicine*, 7(4), 242-252.  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5153515/>

Hayee, P., Memon, K., Puri, P., Khan, M., Urooj, H., Arain, M., ... & Shahnaz, S. (2021). Prevalence of hepatitis b and c among elderly patients at different clinical settings of three major cities of sindh, pakistan. *PJMHS*, 15(8), 2178-2180. <https://doi.org/10.53350/pjmhs211582178>

*Hepatitis B*. (n.d.). Retrieved May 19, 2023, Available from: <https://www.who.int/news-room/fact-sheets/detail/hepatitis-b>

Hernaez, R., Lazo, M., Bonekamp, S., Kamel, I., Brancati, F. L., Guallar, E., & Clark, J. M. 2011. Diagnostic accuracy and reliability of ultrasonography for the detection of fatty liver: a meta-analysis. *Hepatology (Baltimore, Md.)*, 54(3), 1082–1090. <https://doi.org/10.1002/hep.24452>

Jang, J. and Kim, D. (2018). Epidemiology of alcoholic liver disease in korea. Clinical and Molecular *Hepatology*, 24(2), 93-99. <https://doi.org/10.3350/cmh.2017.0079>

Jung, K. S., Kim, S. U., Ahn, S. H., Park, Y. N., Kim, D. Y., Park, J. Y., Chon, C. Y., Choi, E. H., & Han, K. H. 2011. Risk assessment of hepatitis B virus-related hepatocellular carcinoma development using liver stiffness measurement (FibroScan). *Hepatology (Baltimore, Md.)*, 53(3), 885–894. <https://doi.org/10.1002/hep.24121>

Kelly, E. M., Feldstein, V. A., Etheridge, D., Hudock, R., & Peters, M. G. (2017). Sonography Predicts Liver Steatosis in Patients With Chronic Hepatitis B. *Journal of ultrasound in medicine : official journal of the American Institute of Ultrasound in Medicine*, 36(5), 925–932. <https://doi.org/10.7863/ultra.16.04076>

Khadka, D., Kc, S., Karki, N., Khadka, S., & Regmi, K. (2018). Spectrum of hepatitis b infection among patients attending liver unit in nepalgunj medical college – kohalpur. *Journal of Nepalgunj Medical College*, 16(2), 2-5. <https://doi.org/10.3126/jngmc.v16i2.24801>

Kondili, L., Brunetto, M., Maina, A., Argentini, C., Chionne, P., Sorsa, V., ... & Rapicetta, M. (2004). Clinical and molecular characterization of chronic hepatitis b in albania: a country that is still highly endemic for hbv infection. *Journal of Medical Virology*, 75(1), 20-26. <https://doi.org/10.1002/jmv.20231>

Korkmaz, P., Demirtürk, N., Batirel, A., Yardimci, A., Cagır, U., Nemli, S., ... & Sayan, M. (2017). Noninvasive models to predict liver fibrosis in patients with chronic hepatitis b: a study from turkey. *Hepatitis Monthly, In Press(In Press)*. <https://doi.org/10.5812/hepatmon.60266>

- Lai-Hung Wong, G. 2013. Update of liver fibrosis and steatosis with transient elastography (Fibroscan). *Gastroenterology Report*, 1(1), 19-26. <https://doi.org/10.1093/gastro/got007>
- Leow, Y., Chan, W., Goh, G., Wong, V., Fan, J., Kim, Y., ... & Chow, W. (2023). Hepatic steatosis and metabolic risk factors among patients with chronic hepatitis b: the multicentre, prospective CAP-Asia Study. *Journal of Viral Hepatitis*, 30(4), 319-326. <https://doi.org/10.1111/jvh.13796>
- Li, Y., Huang, Y. S., Wang, Z. Z., Yang, Z. R., Sun, F., Zhan, S. Y., Liu, X. E., & Zhuang, H. 2016. Systematic review with meta-analysis: the diagnostic accuracy of transient elastography for the staging of liver fibrosis in patients with chronic hepatitis B. *Alimentary pharmacology & therapeutics*, 43(4), 458–469. <https://doi.org/10.1111/apt.13488>
- Liao, N., Lin, W., Hu, X., Fan, R., Liang, X., Wu, Y., ... & Hou, J. (2017). Prevalence of chronic kidney disease in patients with chronic hepatitis b: a cross-sectional survey. *Journal of Viral Hepatitis*, 24(11), 1043-1051. <https://doi.org/10.1111/jvh.12733>
- Lim, C. T., & Kumar, R. 2017. Hepatitis B and concomitant hepatic steatosis. *Annals of Translational Medicine*, 5(3). <https://doi.org/10.21037/atm.2016.12.04>
- Liu, Y., Wang, X., Xu, F., Li, D., Yang, H., Sun, N., ... & Yang, X. (2021). Risk factors of chronic kidney disease in chronic hepatitis b: a hospital-based case-control study from china. *Journal of Clinical and Translational Hepatology*, 10(2), 238-246. <https://doi.org/10.14218/jcth.2021.00082>
- Lok, A.S, Esteban, R., & Mitty, J. 2023. *Hepatitis B virus: Clinical manifestations and natural history - UpToDate*. Available from : <https://www.uptodate.com/contents/hepatitis-b-virus-clinical-manifestations-and-natural-history>
- Machado, M. V., Oliveira, A. G., & Cortez-Pinto, H. (2011). Hepatic steatosis in hepatitis B virus infected patients: meta-analysis of risk factors and comparison with hepatitis C infected patients. *Journal of gastroenterology and hepatology*, 26(9), 1361–1367. <https://doi.org/10.1111/j.1440-1746.2011.06801.x>
- Marcellin, P., Lau, G., Bonino, F., Farci, P., Hadziyannis, S., Jin, R., ... & Pluck, N. (2004). Peginterferon alfa-2a alone, lamivudine alone, and the two in combination in patients with hbeag-negative chronic hepatitis b. *New England Journal of Medicine*, 351(12), 1206-1217. <https://doi.org/10.1056/nejmoa040431>
- Martín-Carbonero, L., Rallón, N., Benito, J., Poveda, E., González-Lahoz, J., & Soriano, V. (2012). Short communication: does interleukin-28b single nucleotide polymorphisms influence the natural history of hepatitis b?. *Aids*

*Research and Human Retroviruses*, 28(10), 1262-1264.  
<https://doi.org/10.1089/aid.2011.0365>

Maruyama, H., & Kato, N. (2019). Advances in ultrasound diagnosis in chronic liver diseases. *Clinical and molecular hepatology*, 25(2), 160–167.  
<https://doi.org/10.3350/cmh.2018.1013>

Masaki, T., Chiba, S., Tatsukawa, H., Yasuda, T., Noguchi, H., Seike, M., & Yoshimatsu, H. (2004). Adiponectin protects LPS-induced liver injury through modulation of TNF-alpha in KK-Ay obese mice. *Hepatology* (Baltimore, Md.), 40(1), 177–184. <https://doi.org/10.1002/hep.20282>

Mustafa, A., Elfadi, M., Elnabi, M., Ahmed, M., & Sulieman, A. (2018). Assessment of normal liver portal vein and common bile duct using doppler ultrasonography. *International Journal of Research -Granthaalayah*, 6(11), 384-390. <https://doi.org/10.29121/granthaalayah.v6.i11.2018.1141>

Nazarnezhad, M., Moosavy, S., Davoodian, P., Eftekhari, E., Nejatizadeh, A., & Azad, M. (2018). The demographic and paraclinical characteristics of patients with hepatitis b presenting to shahid mohammadi hospital and clinic and other private clinics in bandar abbas, iran. *Journal of Advanced Pharmaceutical Technology Amp Research*, 9(4), 139.  
[https://doi.org/10.4103/japtr.japtr\\_328\\_18](https://doi.org/10.4103/japtr.japtr_328_18)

Nicolau, C., Bianchi, L., & Vilana, R. 2002. Gray-scale ultrasound in hepatic cirrhosis and chronic hepatitis: diagnosis, screening, and intervention. *Seminars in ultrasound, CT, and MR*, 23(1), 3–18.  
[https://doi.org/10.1016/s0887-2171\(02\)90026-0](https://doi.org/10.1016/s0887-2171(02)90026-0)

Pan, Q., Chen, M., Zhang, R., Wang, Y., Zheng, R., Mi, Y., ... & Fan, J. (2017). pnp1a3rs1010023 predisposes chronic hepatitis b to hepatic steatosis but improves insulin resistance and glucose metabolism. *Journal of Diabetes Research*, 2017, 1-12. <https://doi.org/10.1155/2017/4740124>

Papatheodoridis, G. V., Manolakopoulos, S., Liaw, Y. F., & Lok, A. 2012. Follow-up and indications for liver biopsy in HBeAg-negative chronic hepatitis B virus infection with persistently normal ALT: a systematic review. *Journal of hepatology*, 57(1), 196–202. <https://doi.org/10.1016/j.jhep.2011.11.030>

Papatheodoridis, G., Chrysanthos, N., Savvas, S., Sevastianos, V., Kafiri, G., Petraki, K., ... & Manesis, E. (2005). Diabetes mellitus in chronic hepatitis b and c: prevalence and potential association with the extent of liver fibrosis. *Journal of Viral Hepatitis*, 13(5), 303-310. <https://doi.org/10.1111/j.1365-2893.2005.00677.x>

Riahinezhad, M., Rezaei, M., Saneian, H., Famouri, F., & Farghadani, M. (2018). Doppler assessment of children with liver cirrhosis and portal hypertension in comparison with a healthy control group: an analytical cross-sectional study. *Journal of Research in Medical Sciences*, 23(1), 40.  
[https://doi.org/10.4103/jrms.jrms\\_1085\\_17](https://doi.org/10.4103/jrms.jrms_1085_17)

- Sakugawa, H., Nakasone, H., Nakayoshi, T., Orito, E., Mizokami, M., Yamashiro, T., ... & Miyagi, Y. (2002). Preponderance of hepatitis b virus genotype b contributes to a better prognosis of chronic hbv infection in okinawa, japan. *Journal of Medical Virology*, 67(4), 484-489. <https://doi.org/10.1002/jmv.10127>
- Sarin, S. K., Kumar, M., Lau, G. K., Abbas, Z., Chan, H. L. Y., Chen, C. J., Chen, D. S., Chen, H. L., Chen, P. J., Chien, R. N., Dokmeci, A. K., Gane, E., Hou, J. L., Jafri, W., Jia, J., Kim, J. H., Lai, C. L., Lee, H. C., Lim, S. G., ... Kao, J. H. 2016. Asian-Pacific clinical practice guidelines on the management of hepatitis B: a 2015 update. In *Hepatology International* (Vol. 10, Issue 1). Springer India. <https://doi.org/10.1007/s12072-015-9675-4>
- Shi, Y. W., Yang, R. X., & Fan, J. G. (2021). Chronic hepatitis B infection with concomitant hepatic steatosis: Current evidence and opinion. *World journal of gastroenterology*, 27(26), 3971–3983. <https://doi.org/10.3748/wjg.v27.i26.3971>
- Shi, J., Fan, J., Wu, R., Gao, X., Zhang, L., Wang, H., ... & Farrell, G. (2008). Prevalence and risk factors of hepatic steatosis and its impact on liver injury in chinese patients with chronic hepatitis b infection. *Journal of Gastroenterology and Hepatology*, 23(9), 1419-1425. <https://doi.org/10.1111/j.1440-1746.2008.05531.x>
- Shiha, G., Ibrahim, A., Helmy, A., Sarin, S. K., Omata, M., Kumar, A., Bernstien, D., Maruyama, H., Saraswat, V., Chawla, Y., Hamid, S., Abbas, Z., Bedossa, P., Sakhuja, P., Elmahatab, M., Lim, S. G., Lesmana, L., Sollano, J., Jia, J. D., Abbas, B., ... Kumar, M. 2017. Asian-Pacific Association for the Study of the Liver (APASL) consensus guidelines on invasive and non-invasive assessment of hepatic fibrosis: a 2016 update. *Hepatology international*, 11(1), 1–30. <https://doi.org/10.1007/s12072-016-9760-3>
- Shimizu, K., Soroida, Y., Sato, M., Hikita, H., Tamaki, K., Endo, M., ... & Ikeda, H. (2018). Eradication of hepatitis c virus is associated with the attenuation of steatosis as evaluated using a controlled attenuation parameter. *Scientific Reports*, 8(1). <https://doi.org/10.1038/s41598-018-26293-9>
- Sirinawasatien, A., Techasirioangkun, T., & Thongsri, S. (2018). Prevalence and determinants of significant liver fibrosis by vibration-controlled transient elastography in thai chronic hepatitis b patients. *International Journal of Hepatology*, 2018, 1-7. <https://doi.org/10.1155/2018/4310102>
- Subekti, I., Hasan, I., & Setiati, S. (2018). Daftar Kompetensi Dokter Spesialis Penyakit Dalam dan Dokter Spesialis Penyakit Dalam Subspesialis. *Kolegium Ilmu Penyakit Dalam*.
- Sun, X., Ni, H., Xue, J., Wang, S., Aljbri, A., Wang, L., ... & Niu, M. (2022). Bibliometric-analysis visualization and review of non-invasive methods for

- monitoring and managing the portal hypertension. *Frontiers in Medicine*, 9. <https://doi.org/10.3389/fmed.2022.960316>
- Tarantino, G., Conca, P., Tarantino, M., Minno, M., Grimaldi, E., Chianese, D., ... & Capone, D. (2009). Does spleen volume play a role in patients with hcv-related chronic hepatitis?. *International Journal of Immunopathology and Pharmacology*, 22(4), 1009-1017. <https://doi.org/10.1177/039463200902200416>
- Terrault, N. A., Lok, A. S. F., McMahon, B. J., Chang, K. M., Hwang, J. P., Jonas, M. M., Brown, R. S., Jr, Bzowej, N. H., & Wong, J. B. 2018. Update on prevention, diagnosis, and treatment of chronic hepatitis B: AASLD 2018 hepatitis B guidance. *Hepatology (Baltimore, Md.)*, 67(4), 1560–1599. <https://doi.org/10.1002/hep.29800>
- Trautwein, C., Friedman, S. L., Schuppan, D., & Pinzani, M. 2015. Hepatic fibrosis: Concept to treatment. *Journal of hepatology*, 62(1 Suppl), S15–S24. <https://doi.org/10.1016/j.jhep.2015.02.039>
- Wang, H., Yang, J., Zhang, X., & Yan, L. (2014). Liver resection in hepatitis b-related hepatocellular carcinoma: clinical outcomes and safety in overweight and obese patients. *Plos One*, 9(6), e99281. <https://doi.org/10.1371/journal.pone.0099281>
- Wang, S., Yeh, S., Lin, W., Wang, H., Chen, D., & Chen, P. (2009). Identification of androgen response elements in the enhancer i of hepatitis b virus: a mechanism for sex disparity in chronic hepatitis b. *Hepatology*, 50(5), 1392-1402. <https://doi.org/10.1002/hep.23163>
- Wong, V. W., Wong, G. L., Yu, J., Choi, P. C., Chan, A. W., Chan, H. Y., Chu, E. S., Cheng, A. S., Chim, A. M., Chan, F. K., Sung, J. J., & Chan, H. L. (2010). Interaction of adipokines and hepatitis B virus on histological liver injury in the Chinese. *The American journal of gastroenterology*, 105(1), 132–138. <https://doi.org/10.1038/ajg.2009.560>
- World Health Organization. Regional Office for the Western Pacific. 2000. The Asia-Pacific perspective : redefining obesity and its treatment. *Sydney : Health Communications Australia*. <https://apps.who.int/iris/handle/10665/206936>
- Xue, T., Yang, L., Zhu, G., Tan, Z., Liu, H., Chai, G., ... & Ye, T. (2022). An oral phenylacrylic acid derivative suppressed hepatic stellate cell activation and ameliorated liver fibrosis by blocking tgf-β1 signalling. *Liver International*, 43(3), 718-732. <https://doi.org/10.1111/liv.15488>
- Yamaguchi, K., Seko, Y., Sakai, T., Kitano, S., Okabe, H., Kataoka, S., Moriguchi, M., Umemura, A., & Itoh, Y. 2023. Comparison of portal vein hemodynamics with ultrasound-based elastography for the prediction of liver fibrosis in patients with chronic liver disease. *Scientific Reports*, 13(1). <https://doi.org/10.1038/s41598-023-30279-7>

- Yamazaki, T., Sasaki, E., Kakinuma, C., Yano, T., Miura, S., & Ezaki, O. (2005). Increased very low density lipoprotein secretion and gonadal fat mass in mice overexpressing liver dgat1. *Journal of Biological Chemistry*, 280(22), 21506-21514. <https://doi.org/10.1074/jbc.m412989200>
- Yang, S., Ding, C., Cui, Y., Wu, J., Yu, C., Chen, P., ... & Li, L. (2017). Prevalence and influencing factors of hepatitis b among a rural residential population in zhejiang province, china: a cross-sectional study. *BMJ Open*, 7(4), e014947. <https://doi.org/10.1136/bmjopen-2016-014947>
- Yim, H. J., & Lok, A. S. 2006. Natural history of chronic hepatitis B virus infection: what we knew in 1981 and what we know in 2005. *Hepatology (Baltimore, Md.)*, 43(2 Suppl 1), S173–S181. <https://doi.org/10.1002/hep.20956>
- Zhang, G. L., Zhao, Q. Y., Lin, C. S., Hu, Z. X., Zhang, T., Gao, Z. L., & Schepis, F. 2019. Transient elastography and ultrasonography: Optimal evaluation of liver fibrosis and cirrhosis in patients with chronic hepatitis B concurrent with nonalcoholic fatty liver disease. *BioMed Research International*, 2019. <https://doi.org/10.1155/2019/3951574>
- Zhang, X., Sun, X., Li, M., Zhou, Z., & Gao, Y. (2014). A promoter polymorphism (rs3806798) of interleukin-15 gene is associated with chronic hepatitis b virus infection in the chinese han population. *International Journal of Immunogenetics*, 41(4), 298-305. <https://doi.org/10.1111/iji.12120>
- Zhao, Z., Chen, X., Zhang, Y., Song, Q., Xue, J., & Chen, K. (2021). Receiver operator characteristics (roc) analysis of real-time shear wave elastography information health monitoring in liver fibrosis with chronic hepatitis b virus infection. *Scientific Programming*, 2021, 1-7. <https://doi.org/10.1155/2021/8393697>
- Zheng, R., Chen, J., Zhuang, Q., Lu, Y., Chen, J., & Chen, B. (2013). Clinical and virological characteristics of chronic hepatitis b patients with hepatic steatosis. *International Journal of Medical Sciences*, 10(5), 641-646. <https://doi.org/10.7150/ijms.5649>
- Zheng, R., Xu, C., Jiang, L., Dou, A., Zhou, K., & Lu, L. (2010). Predictors of hepatic steatosis in hbeag-negative chronic hepatitis b patients and their diagnostic values in hepatic fibrosis. *International Journal of Medical Sciences*, 272-277. <https://doi.org/10.7150/ijms.7.272>
- Zubair, A., Yaseen, A., Shehzadi, Y., Sagheer, R., Saleem, A., Bacha, R., Amir Gilani, S., Muhammad Yousaf Farooq, S., & Rashid Mirza, Z. 2019. Comparison of Greyscale and Doppler Ultrasound with Shear wave Elastography (SWE) in the Diagnosis of Liver Cirrhosis. *Saudi Journal of Medical and Pharmaceutical Sciences Abbreviated Key Title: Saudi J Med Pharm Sci ISSN*. <https://doi.org/10.36348/sjmps.2019.v05i02.002>
- Zytoon, A. A., Gad Allah, A. N. A., & Faisal, A. 2014. The prediction of liver disease status using Doppler observations of the hepatic and portal venous

system compared with liver biopsy in patients with chronic hepatitis C.  
*Research and Reports in Focused Ultrasound*, 1.  
<https://doi.org/10.2147/rrfu.s57202>