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Educational Background

Feb. 2010: M.D., Yeungnam University, School of Medicine, Daegu, Korea
Feb. 2018: Ph.D. Kyungpook National University, School of Medicine

Professional Experience

Mar. 2011 – Feb. 2015: Residency of Internal Medicine in Kyungpook National University Hospital
Mar. 2015 – Feb. 2017: Fellowship of Gastroenterology & Hepatology in Kyungpook National University Hospital
Mar. 2017 – Feb. 2019: Full-time Instructor, Department of Internal medicine, Chilgok Kyungpook National University Hospital, Daegu, Korea
Mar. 2020 – Mar. 2024: Assistant professor, Department of Internal medicine, Chilgok Kyungpook National University Hospital, Daegu, Korea
Apr. 2024 – Present: Associate professor, Department of Internal medicine, Chilgok Kyungpook National University Hospital, Daegu, Korea

Main Scientific Publications

1. Lee YR, Park SY, Tak WY. Treatment Outcomes and Prognostic Factors of Acute Variceal Bleeding in Patients with Hepatocellular Carcinoma. Gut Liver 2020;14(4):500-508. (In eng). DOI: 10.5009/gnl19155.
2. Kim SU, Seo YS, Lee HA, et al. Hepatocellular Carcinoma Risk Steadily Persists over Time Despite Long-Term Antiviral Therapy for Hepatitis B: A Multicenter Study. Cancer Epidemiol Biomarkers Prev 2020;29(4):832-837. (In eng). DOI: 10.1158/1055-9965.Epi-19-0614.
3. Park JG, Tak WY, Park SY, et al. Effects of Branched-Chain Amino Acid (BCAA) Supplementation on the Progression of Advanced Liver Disease: A Korean Nationwide, Multicenter, Prospective, Observational, Cohort Study. Nutrients 2020;12(5) (In eng). DOI: 10.3390/nu12051429.
4. Han MH, Lee JH, Kim G, et al. Expression of the Long Noncoding RNA GAS5 Correlates with Liver Fibrosis in Patients with Nonalcoholic Fatty Liver Disease. Genes (Basel) 2020;11(5) (In eng). DOI: 10.3390/genes11050545.
5. Lee YR, Kang MK, Song JE, et al. Clinical outcomes of coronavirus disease 2019 in patients with pre-existing liver diseases: A multicenter study in South Korea. Clin Mol Hepatol 2020;26(4):562-576. (In eng). DOI: 10.3350/cmh.2020.0126.
6. Park JG, Kim G, Jang SY, et al. Plasma Long Noncoding RNA LeXis is a Potential Diagnostic Marker for Non-Alcoholic Steatohepatitis. Life (Basel) 2020;10(10) (In eng). DOI: 10.3390/life10100230.
7. Park JG, Kang MK, Lee YR, et al. Fibrosis-4 index as a predictor for mortality in hospitalised patients with COVID-19: a retrospective multicentre cohort study. BMJ Open 2020;10(11):e041989. (In eng). DOI: 10.1136/bmjopen-2020-041989.
8. Cha JG, Lee SY, Ryeom HK, et al. Percutaneous portal vein embolization for intractable hepatic biloma after radiofrequency ablation. Eur J Radiol Open 2020;7:100300. (In eng). DOI: 10.1016/j.ejro.2020.100300.
9. Chang JW, Lee JS, Lee HW, et al. Validation of risk prediction scores for hepatocellular carcinoma in patients with chronic hepatitis B treated with entecavir or tenofovir. J Viral Hepat 2021;28(1):95-104. (In eng). DOI: 10.1111/jvh.13411.

Main Scientific Publications

10. Jang SY, Tak WY, Park SY, et al. Diagnostic Efficacy of Serum Mac-2 Binding Protein Glycosylation Isomer and Other Markers for Liver Fibrosis in Non-Alcoholic Fatty Liver Diseases. Ann Lab Med 2021;41(3):302-309. (In eng). DOI: 10.3343/alm.2021.41.3.302.

11. Wu D, Gong K, Arru CD, et al. Severity and Consolidation Quantification of COVID-19 From CT Images Using Deep Learning Based on Hybrid Weak Labels. IEEE J Biomed Health Inform 2020;24(12):3529-3538. (In eng). DOI: 10.1109/jbhi.2020.3030224.

12. Zhong A, Li X, Wu D, et al. Deep metric learning-based image retrieval system for chest radiograph and its clinical applications in COVID-19. Med Image Anal 2021;70:101993. (In eng). DOI: 10.1016/j.media.2021.101993.

13. Gong K, Wu D, Arru CD, et al. A multi-center study of COVID-19 patient prognosis using deep learning-based CT image analysis and electronic health records. Eur J Radiol 2021;139:109583. (In eng). DOI: 10.1016/j.ejrad.2021.109583.

14. Dayan I, Roth HR, Zhong A, et al. Federated learning for predicting clinical outcomes in patients with COVID-19. Nat Med 2021;27(10):1735-1743. (In eng). DOI: 10.1038/s41591-021-01506-3.

15. Lee YR, Kim G, Lee HW, et al. Long interspersed nuclear element-1 hypomethylation is associated with poor outcomes via the activation of ST18 in human hepatocellular carcinoma. Medicine (Baltimore) 2021;100(16):e25552. (In eng). DOI: 10.1097/md.0000000000025552.

16. Song JE, Kang MK, Lee YR, et al. Multicenter Analysis of Clinical Features and Prognosis of COVID-19 Patients with Hepatic Impairment. Gut Liver 2021;15(4):606-615. (In eng). DOI: 10.5009/gnl20267.

17. Kang MK, Baek JH, Kweon YO, et al. Association of Skeletal Muscle and Adipose Tissue Distribution with Histologic Severity of Non-Alcoholic Fatty Liver. Diagnostics (Basel) 2021;11(6) (In eng). DOI: 10.3390/diagnostics11061061.

18. Kim G, Han JR, Park SY, et al. Circular noncoding RNA hsa_circ_0005986 as a prognostic biomarker for hepatocellular carcinoma. Sci Rep 2021;11(1):14930. (In eng). DOI: 10.1038/s41598-021-94074-y.

19. Kim DS, Park SY, Kim BK, et al. Revised Korean Antiviral Guideline Reduces the Hepatitis B-related Hepatocellular Carcinoma Risk in Cirrhotic Patients. J Korean Med Sci 2021;36(16):e105. (In eng). DOI: 10.3346/jkms.2021.36.e105.

20. Kim YG, Kim K, Wu D, et al. Deep Learning-Based Four-Region Lung Segmentation in Chest Radiography for COVID-19 Diagnosis. Diagnostics (Basel) 2022;12(1) (In eng). DOI: 10.3390/diagnostics12010101.

21. Byun JK, Lee S, Kang GW, et al. Macropinocytosis is an alternative pathway of cysteine acquisition and mitigates sorafenib-induced ferroptosis in hepatocellular carcinoma. J Exp Clin Cancer Res 2022;41(1):98. (In eng). DOI: 10.1186/s13046-022-02296-3.

22. Jang SY, Han YS, Lee SY, et al. A Case of Hepatic Immunoglobulin G4-Related Disease Presenting as an Inflammatory Pseudotumor and Sclerosing Cholangitis. Diagnostics (Basel) 2022;12(6) (In eng). DOI: 10.3390/diagnostics12061497.

23. Jang SY, Kim G, Tak WY, et al. Circular Noncoding RNA hsa_circ_0003570 as a Prognostic Biomarker for Hepatocellular Carcinoma. Genes (Basel) 2022;13(8) (In eng). DOI: 10.3390/genes13081484.

24. Kang MK, Lee YR, Song JE, et al. Prognostic Impact of Myosteatosis on Mortality in Hospitalized Patients with COVID-19. Diagnostics (Basel) 2022;12(9) (In eng). DOI: 10.3390/diagnostics12092255.

25. Woo HY, Heo J, Tak WY, et al. Effect of switching from nucleos(t)ide maintenance therapy to PegIFN alfa-2a in patients with HBeAg-positive chronic hepatitis B: A randomized trial. PLoS One 2022;17(7):e0270716. (In eng). DOI: 10.1371/journal.pone.0270716.

26. Lee HW, Park SY, Lee YR, et al. Episodic Detectable Viremia Does Not Affect Prognosis in Untreated Compensated Cirrhosis With Serum Hepatitis B Virus DNA <2,000 IU/mL. Am J Gastroenterol 2022;117(2):288-294. (In eng). DOI: 10.14309/ajg.0000000000001497.

27. Yoo JJ, Park SY, Moon JE, et al. The long-term prognosis and the need for histologic assessment in chronic hepatitis B in serological immune-tolerant phase. Clin Mol Hepatol 2023 (In eng). DOI: 10.3350/cmh.2022.0322.