

Liu Jue

Assistant Professor

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Personal profile

Dr. Liu is an assistant professor at the School of Public Health, Peking University. She gained the bachelor degree of Medicine in 2008 and worked in the Department of Gynaecology and Obstetrics in Peking University First Hospital during 2008-2011. Then she gained her PhD in epidemiology and biostatistics at School of Public Health, Peking University in 2016. Her research interests are mainly in: (1) Epidemiology of infectious diseases; (2) Prevention, control and management on infectious diseases; (3) Maternal and child health; (4) Big data research and application in health. She acted as Principle Investigator of various projects funded by the National Natural Science Foundation, the Ministry of Science and Technology of China, the National Health Commission of China, etc. And she has also engaged in other national projects, including the National Major Scientific and Technological Special Project of China, the National Science & Technology Pillar Program, etc. She has published more than 90 papers in the recent five years, including Lancet Infectious Disease (IF 24.446), Lancet Global Health (IF 21.597), Gut (19.819), Bull World Health Organ (IF 6.96), etc..

She is the member of the Expert panel of COVID-19 in the National Health Commission of China, member of mother-to-child transmission prevention (PMTCT) committee in the Chinese Association for Prevention and Control of STD and AIDS; the member of Big Data Working Committee of Rehabilitation in the Rehabilitation Medical Association of China, member of Science and Technology Management and Evaluation Committee in the Rehabilitation Medical Association of China, vice president of the Youth Committee of the Soft Tissue Oncology Branch in the China Association for the Promotion of International Exchange in Healthcare, and member of the Epidemiology Professional Committee in the Beijing Preventive Medicine Association, etc..

She has awarded Peking University Academic Innovation Award (2016), the first prize of the Science and Technology Award of the Chinese Preventive Medicine Association (2019), the first prize of National Maternal and Child Health Science and Technology Award (2019), the Outstanding young talent in Beijing (2020), the Beijing May Fourth Youth Medal (2020), Wang Xuan Young Scholar Award of Peking University (2020) etc..

Main research directions

1. Epidemiology of infectious diseases
2. Prevention, control and management on infectious diseases
3. Maternal and child health
4. Big data research and application in health

Representative scientific research projects

1. National Key Research and Development Project of China, Study on Evaluation of Epidemiology and Prevention and Control Strategy of New Coronavirus Transmission (2020)

2. National Science and Technology Key Projects on Prevention and Treatment of Major Infectious Diseases of China, Development and application of detection products for viral hepatitis, AIDS, tuberculosis and other infectious diseases based on nucleic acid detection technology (2020-2021)
3. National Natural Science Foundation of China, Risk Prevention and Model Innovation of Public Health under the Background of "One Belt and One Road" (2020-2024)
4. National Natural Science Foundation of China, Big data-driven family-based integrated hepatitis B prevention strategy and empirical research (2019-2022)
5. National Natural Science Foundation of China, Effects of pre-pregnancy BMI, pregnancy weight gain and AHSR/RBP4/FABP4 on gestational diabetes mellitus: a prospective cohort study (2018-2020)
6. National Health Commission, National Standard and Management Practice of Family and Community Care Centers (2019-2020)
7. Viking Cruises, Research on Appropriate Preventive Anti-Epidemic Measures for COVID-19 Based on Cruise Ship Environment (2021)
8. Foundation of Peking University for Outstanding Young Teachers, Epidemiological characteristics, risk factors and prevention and control measures of infectious diseases among women and children (2016-2019)
9. Major project of the Ministry of Science and Technology during the 12th Five-Year Plan, Research on the mathematical model of AIDS epidemic trend, epidemic evaluation and prediction in China (2012-2015)
10. Ministry of Science and Technology (Project 863), Study on appropriate technology for early identification and early warning of fever and diarrhea symptoms in communities (2008-2012)

10 representative papers

1. **Liu J***, Zhang S*, Liu M#, Wang Q, Shen H, Zhang Y. Maternal pre-pregnancy infection with hepatitis B virus and the risk of preterm birth: a population-based cohort study. *Lancet Glob Health*. 2017;5(6):e624-e632.
2. **Liu J***, Zhang S*, Wang Q, Shen H, Zhang M, Zhang Y, Yan D, Liu M#. Seroepidemiology of hepatitis B virus infection in 2 million men aged 21-49 years in rural China: a population-based, cross-sectional study. *Lancet Infect Dis*. 2016;16(1):80-6.
3. Liu M#, Zhang S, **Liu J**, Wang Q, Shen H. Changing hepatitis B virus epidemiology in rural China. *Lancet Infect Dis*. 2016;16(2):151-2.
4. **Jue Liu***, Liyuan Tao*, Xia Liu, Hongyan Yao, Shicheng Yu, Qiqi Wang, Jiaojiao Zhang, Zhancheng Gao, Rongmeng Jiang, Wenzhan Jing, Min Liu#. GI symptoms and fever increase the risk of severe illness and death in patients with COVID-19. *Gut*, 2021;70(2):442-444.
5. **Liu J***, Liang W, Jing W, Liu M#. Countdown to 2030: eliminating hepatitis B disease, China. *Bull World Health Organ*. 2019. *Bull World Health Organ* 2019;97:230-238.
6. **Jue Liu#**, Liyuan Tao#, Zhancheng Gao, Rongmeng Jiang, Wenzhan Jing, Min Liu*. Development and validation of a prediction model for early identification of critically ill elderly COVID-19 patients. *Aging*. 2020;12(19):18822-18832.
7. **Liu J***, Zhang S, Liu M#, Wang Q, Shen H, Zhang Y. Distribution of ABO/Rh blood groups and their association with hepatitis B virus infection in 3.8 million Chinese adults: A population-based cross-sectional study. *J Viral Hepat*. 2018;25(4):401 - 411.
8. **Liu J***, Zhang S*, Wang Q, Shen H, Zhang Y, Yan D, Liu M#. Prevalence of HBsAg/HBeAg amongst

1 936 801 couples preparing for pregnancy in rural China: An observational study. *J Viral Hepat.* 2017;24(8):679-686.

9. Min Du*, **Jue Liu#**, Na Han, Zhiling Zhao, Shusheng Luo, Haijun Wang. Association between sleep duration in early pregnancy and risk of gestational diabetes mellitus: A prospective cohort study. *Diabetes Metab.* 2020 Dec 16;101217.

10. Ruitong Wang*, Wenxin Yan*, Min Du, Liyuan Tao, **Jue Liu#**. The effect of influenza virus infection on pregnancy outcomes: A systematic review and meta-analysis of cohort studies. *International Journal of Infectious Diseases.* 2021;105:567-578.