

DIANQIN SUN<https://dianqinsun.com>

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National Cancer Center, CAMS & PUMC, Beijing 100021, China

EDUCATION

- 2019-Present Peking Union Medical College, China
Expected 6/2022 MMed, Epidemiology and Health Statistics
Dissertation: *“Reducing social inequalities in gastric cancer from primary prevention to cancer screening”*
- 2014-2019 Capital Medical University, China
BMed, Preventive Medicine

GRANTS AND HONORS

- 2021 Second Prize Scholarship
Peking Union Medical College
- 2018 First Prize Scholarship; Outstanding Student Leader
Capital Medical University
- 2017 Climate Adaptation Youth Intervention Program Grant for field research in
Guyuan, China
China Youth Leaders Foundation
- 2016 National Encouragement Scholarship
Beijing Municipal Education Commission
- 2015 First Prize, 32nd National Physics Competition for College Students
(agricultural, forestry, and medical students' group)
Beijing Physical Society

RESEARCH EXPERIENCE

- 2019-Present National Cancer Center, CAMS & PUMC
Graduate Researcher; Advisor: Wanqing Chen
Reducing social inequalities in gastric cancer from primary prevention to cancer screening
- Applied causal mediation analysis to identify intervention targets for reducing social inequalities in gastric cancer
 - Evaluated the improvement in performance and equity of the gastric cancer prediction model after adding socioeconomic variables
- Cancer burden in China: trends, risk factors and prevention
- Summarized the trend of cancer burden in China
 - Quantified the impact of change in dietary pattern on the cancer burden in China by the comparative risk assessment
- 2018-2019 Department of Child, Adolescent Health and Maternal Care, Capital Medical University
Research Assistant; Advisor: Yifei Hu
Awareness of influenza vaccination among pregnant women and their obstetricians in Beijing
- Investigated factors that might influence the willingness of pregnant

women to accept influenza vaccine and the willingness of obstetricians to recommend these vaccines

Participated in the baseline survey of the child cohort on sensitization, puberty, obesity and cardiovascular risk (<https://proctudy.com/>)

2018-2019

Department of Epidemiology and Health Statistics, Capital Medical University
Research Assistant; Advisor: Lixin Tao, Ling Zhang

Cognitive and mental health in old adults

- Superoxide dismutase activity and risk of cognitive decline
- vitamin D and depression in older adults

The health effect of ambient air pollution

- fine particulate matter exposure on the progression of arterial stiffness
- ambient air pollution and mortality from all causes, pneumonia, and congenital heart diseases among children aged under 5 years

PUBLICATIONS

Works in Progress

Sun D, Lei L, Li H, Cao M, He S, Zhang Z, Guo G, Song G, Peng J, Chen W. The contribution of health behaviors to educational inequalities in gastric high-grade dysplasia and gastric cancer.

Sun D, Li H, Cao M, He S, Xia C, Yu Y, Li N, Chen W. The dietary transition and its impact on the cancer burden in China: a comparative risk assessment.

Peer-reviewed Research Articles (*equal effort)

Sun D, Liu Y, Zhang J, Liu J, Wu Z, Liu M, Li X, Guo X, Tao L. Long-term effects of fine particulate matter exposure on the progression of arterial stiffness. *Environmental Health*. 2021;20(1):2.

Sun D, Cao M, Li H, Ren J, Shi J, Li N, Chen W. Risk of prostate cancer in men with HIV/AIDS: a systematic review and meta-analysis. *Prostate Cancer and Prostatic Diseases*. 2021;24(1):24-34.

Sun D, Cao M, Li H, He S, Chen W. Cancer burden and trends in China: a review and comparison with Japan and South Korea. *Chinese Journal of Cancer Research*. 2020;32(2):129-139.

Li H*, **Sun D***, Wang A, Pan H, Feng W, Ng C H, Ungvari G S, Tao L, Li X, Wang W, Xiang Y T, Guo X. Serum 25-hydroxyvitamin D levels and depression in older adults: a dose-response meta-analysis of prospective cohort studies. *American Journal of Geriatric Psychiatry*. 2019;27(11):1192-1202.

Wang J*, **Sun D***, Abudusaimaiti X, Vermund SH, Li D, Hu Y. Low awareness of influenza vaccination among pregnant women and their obstetricians: a population-based survey in Beijing, China. *Human Vaccines & Immunotherapeutics*. 2019;15(11):2637-2643.

Sun D, Sun X, Xu Y, Wu T, Tao L. Superoxide dismutase activity and risk of cognitive decline in older adults: findings from the Chinese Longitudinal Healthy Longevity Survey. *Experimental Gerontology*. 2019;118:72-77.

Chen W*, Li H*, Ren J, Zheng R, Shi J, Li J, Cao M, **Sun D**, He S, Sun X, Cao X, Feng S, Zhou J, Luo P, Zha Z, Jia S, Wang J, Ma H, Zeng H, Canfell K, He J. Selection of high-risk individuals for esophageal cancer screening: a prediction model of esophageal squamous cell carcinoma based on a multicenter screening cohort in rural China. *International Journal of Cancer*. 2021;148(2):329-339.

Chen W*, Li H*, Zheng R, Ren J, Shi J, Cao M, **Sun D**, Sun X, Cao X, Zhou J, Luo P, Wang J, Ma
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H, Shao T, Zhao C, He S, Sun D, Xu Y, Wu P, Zeng H, Li J, He J. An initial screening strategy based on epidemiologic information in esophageal cancer screening: a prospective evaluation in a community-based cancer screening cohort in rural China. *Gastrointestinal Endoscopy*. 2021;93(1):110-118.e112.

Cao M, Li H, **Sun D**, Lei L, Ren J, Shi J, Li N, Peng J, Chen W. Classifying risk level of gastric cancer: evaluation of questionnaire-based prediction model. *Chinese Journal of Cancer Research*. 2020;32(5):605-613.

Li H, Zeng H, Zheng R, Zou X, Cao M, **Sun D**, Zhou J, Luo P, Jia S, Zha Z, Wang J, Ma H, Sun X, Cao X, Feng S, Fan L, Shi J, Chen W. Association of cancer awareness levels with the risk of cancer in rural China: a population-based cohort study. *Cancer*. 2020;126(20):4563-4571.

Wang J*, Cao H*, **Sun D**, Qi Z, Guo C, Peng W, Sun Y, Xie Y, Liu X, Li B, Luo Y, Pan Y, Li Y, Zhang L. Associations between ambient air pollution and mortality from all causes, pneumonia, and congenital heart diseases among children aged under 5 years in Beijing, China: a population-based time series study. *Environmental Research*. 2019;176:108531.

Reviews, Commentaries and Other Publications

Sun D, Li H, Cao M, He S, Lei L, Peng J, Chen W. Cancer burden in China: trends, risk factors and prevention. *Cancer Biology & Medicine*. 2020;17(4):879-895.

Cao M, Li H, **Sun D**, Chen W. Cancer burden of major cancers in China: a need for sustainable actions. *Cancer Communications*. 2020;40(5):205-210.

Cao M, Li H, **Sun D**, He S, Yu Y, Li J, Chen H, Shi J, Ren J, Li N, Chen W. Cancer screening in China: The current status, challenges, and suggestions. *Cancer Letters*. 2021;506:120-127.

CONFERENCE PAPERS

Sun D, Li H, Cao M, He S, Chen W. Dietary patterns and prostate cancer using latent class analysis. Poster presentation delivered at *Chinese Conference on Oncology*, Zhengzhou, China, November 2021.

Sun D, Lei L, Li H, Cao M, He S, Zhang Z, Guo G, Song G, Peng J, Chen W. The contribution of health behaviors to educational inequalities in gastric high-grade dysplasia and gastric cancer. Poster presentation delivered at *World Congress of Epidemiology*, virtual, Australia, September, 2021.

Sun D, Cao M, Li H, Ren J, Shi J, Li N, Chen W. Risk of prostate cancer in men with HIV/AIDS: a systematic review and meta-analysis. Poster presentation delivered at *Chinese Conference on Oncology*, Guangzhou, China, November 2020.

RELATED PROFESSIONAL EXPERIENCE

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| 2021 | Medieco Group
Contributor <ul style="list-style-type: none"> ● Wrote online articles (in Chinese) to introduce the concept, methods, and implications of <i>target trial emulation</i> |
| 2020-2021 | Working Group for drafting Cancer Screening Guidelines, National Cancer Center
Member <ul style="list-style-type: none"> ● Reviewed literature and wrote the draft for <i>Colorectal Cancer Screening Guideline (risk factor part)</i> |

- 9/2019-8/2020 Epidemiology Students' Club, Peking Union Medical College
Executive President
- Organized and led graduate students to promote proper methods in health research at PUMC
 - Managed 10 public seminars in *Real-World Evidence (RWE)*. Taught *use of DAGs in health research* in one seminar
 - Convened epidemiology students to write for the club's WeChat public account
- 7/2018-10/2018 Dongcheng District CDC, Beijing
Internship
- 4/2017-7/2017 Beijing Anzhen Hospital
Clinical Internship

LEADERSHIP

- 10/2019-9/2020 Department of Academic Studies, Student Union, Chinese Academy of Medical Sciences Cancer Hospital
Chair
- Organized *New Student Seminars*
 - Assisted in the organization of *New Year's Gala*
- 10/2016-11/2016 World Language Atlas program, UNESCO-TALKMATE NEXUS
Volunteer
- Conducted user interviews and testing, performed marketing assessment, and developed advertising strategies for TALKMATE APP
 - Ranked 1st in a strategy competition among 37 teams and earned the honor *Excellent Volunteer*