CURRICULUM VITAE

김현창

연세대학교 의과대학 예방의학교실

[학력]

1996	연세대학교 의과대학 의학사
1999	연세대학교 보건학석사
2003	연세대학교 보건학박사



[경력]

2004-현재	연세대학교 의과대학 전임강사/조교수/부교수/교수
2010-현재	연세대학교 의과대학 내과학교실 심장내과 겸무교수
2022-현재	연세대학교 디지털헬스케어혁신연구소 소장

[관심분야]

심혈관질환 역학 및 예방, 질병예측 모형, 건강형평성

[논문]

- Hoang MT, Jung SJ, Lee H, Kim HC. Parent-Offspring Associations of Ideal Cardiovascular Health Metrics: Findings From the 2014 to 2021 Korea National Health and Nutrition Examination Survey. J Am Heart Assoc. 2024:e030995.
- 2. Lee HH, Lee H, Bhatt DL, Kang D, Youn JC, Shin DW, Cho J, Kim HC. Changes in physical activity and incident cardiovascular events in cancer survivors. Eur Heart J. 2023;44(47):4997–5000.
- 3. Lee HH, Lee H, Bhatt DL, Lee GB, Han J, Shin DW, Kang D, Youn JC, Guallar E, Cho J, Kim HC. Smoking habit change after cancer diagnosis: effect on cardiovascular risk. Eur Heart J. 2023:ehad199.
- 4. Rim TH, Lee CJ, Tham YC, Cheung N, Yu M, Lee G, Kim Y, Ting DSW, Chong CCY, Choi YS, Yoo TK, Ryu IH, Baik SJ, Kim YA, Kim SK, Lee SH, Lee BK, Kang SM, Wong EYM, Kim HC, Kim SS, Park S, Cheng CY, Wong TY. Deep-learning-based cardiovascular risk stratification using coronary artery calcium scores predicted from retinal photographs. Lancet Digit Health. 2021;3(5):e306-e316.
- Kim HC, Greenland P, Rossouw JE, Manson JE, Cochrane BB, Lasser NL, Limacher MC, Lloyd-Jones DM, Margolis KL, Robinson JG. Multimarker prediction of coronary heart disease risk: the Women's Health Initiative. J Am Coll Cardiol. 2010;55(19):2080-91.

CVD prediction model in Korea: current status and challenge

Hyeon Chang Kim

Department of Preventive Medicine, Yonsei University College of Medicine, Korea

Research into cardiovascular disease (CVD) prediction models has long been a vibrant area of study in Western countries. These models have become essential components of guidelines for managing dyslipidemia, diabetes, hypertension, and the prevention of CVD. In Korea, interest in CVD prediction research has surged since the 2000s. However, the integration of CVD prediction models into clinical guidelines and their active application in clinical settings has been limited. This limitation is partly due to the scarcity of models that are developed and validated across diverse and representative cohorts. Additionally, the relatively lower incidence of CVD in Korea compared to Western populations diminishes the efficiency of these models in pinpointing individuals at high risk who would benefit from treatment.

There is an urgent need for the development of CVD prediction models tailor-made for the Korean population. Critical to this endeavor is the research and discussion necessary to establish cutoff levels for intervention based on the CVD risk estimated by these models. Determining such thresholds is vital for the models' effective application in clinical practice, ensuring that interventions are appropriately targeted at individuals at significant risk.

Furthermore, advancements in CVD prediction performance are necessary. Future models should account for the visit-to-visit variability in data from periodic health examinations and integrate novel biomarkers, while also adopting state-of-the-art methodologies, such as artificial intelligence. By addressing these challenges, we can enhance the predictive accuracy of CVD risk assessments and facilitate the identification of high-risk individuals. This progress will lead to a better integration of predictive models into clinical practice and targeted interventions, ultimately reducing the burden of CVD in Korea.