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강연제목: 피부과 분야에서 의료영상 인공지능활용/ Artificial Intelligence for Medical Imaging in Dermatology

Abstract

With the advance of computing power and machine learning algorithms, various artificial intelligences are being developed in the medical field. Dermatology is also one of the main fields for potential application of medical artificial intelligence. The landmark study reported that computers can automatically analyze clinical photos to diagnose skin cancer at the level of a dermatologist. Since then, many models have been developed that can discriminate not only skin cancer but also more diverse skin diseases such as eczematous or infectious diseases. Recently, in addition to the diagnosis of skin diseases, the models for various purposes such as measuring the severity of diseases or converting general visible light photos to ultraviolet photos have been reported. Just a few years ago, one of the most important questions was “will computers replace physicians?” However, recently, it is rather expected that the computer will play major roles in “Human-Computer Collaboration.” The best decision making will be made by fusing judgments derived from human common sense, imagination, and experience with judgments based on the speed and data derived from the artificial intelligence. The skin is an organ that occupies the largest area in our body, and skin diseases belong to the group of diseases with the highest prevalence in the world. Therefore, dermatologists are faced with a wide variety of skin diseases, and therefore should make the best decision for better patient outcome. Medical artificial intelligence in dermatology will play an important role in the future and is expected to become a reliable companion for dermatologists.

Brief Biosketch

주요연구분야: 역학, 의학통계학, 메타분석, 인공지능 활용

Major Interest: Epidemiology, Biostatistics, Meta-analysis, Application of Artificial Intelligence