Web page theme: AI in healthcare

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Why we’re using AI in healthcare field?

-rising healthcare cost

-lack of health-care experts

-complexity and rise of data in healthcare (2)

Why are we using AI in healthcare field?

As the healthcare industry is now transforming because of the development in technology, but several problems also appear, such as the increasing cost on healthcare and the shortage on health-care experts. (1) In order to ease these issues, the use of artificial intelligence is increasing, they are not only just be used in pharmaceutical industry but also in business and society. (2) (3) Due to their characteristics of learning skills and storage of huge amount of data, they can make more accurate and precise decisions.

Applications of AI:

1. AI for drug discovery

Since AI can deal with large quantities of data, they can help medical company to speed up the drug discovery process by QSAR. QSAR stands for Quantitive-Structure-Activity Relationship, which is basically based on some computational models to identify and predict large numbers of compounds or parameters.

1. AI for intelligent clinical trial

AI has a huge data base on all kinds of examples which will produce accurate outcomes

Traditional ‘linear and sequential' clinical trials are still the gold standard for ensuring the efficacy and safety of new drugs. The lengthy, tried-and-true method of distinct and defined stages of randomised controlled trials (RCTs) was developed primarily for evaluating mass-market pharmaceuticals and has remained mostly unchanged in recent decades.

Model sharing

Due to the integration of AI technologies, represented by machine learning, neural networks, deep learning, natural language processing, and computer vision, with the healthcare field has continuously deepened, presenting diversified developmental patterns.(4)

1. Care on patients

-use algorithms to identify possible consequences (e.g: maternal care: identify high risks moms and problems after childbirth

-cause mental health problems by ectopic pregnancy, miscarriage, high blood pressure… (5)

-sensor-enabled systems detect biological information, predict the health condition