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**The role of risk prediction AI models in management of renal failure**

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Data-driven medicine is about to come down to real clinical practice. Machine learning technique rushes to apply to the prediction of acute and chronic renal failure. Many methods develop including logistic linear regression, support vector machine, decision tree, random forest. The deep learning techniques also apply to the nephrology field with a convolutional neural network and recurrent neural network. Here, we will discuss how to use machine learning and neural network techniques in the nephrology field and what we can expect soon.