Predicting future disease incidence is important and will be beneficial in the planning and management of a suitable policy to reduce the number of cases. Generally, information systems play a central role in the development of an effective and comprehensive approach to prevent, detect, respond, and manage infectious disease outbreaks in human. The application of artificial intelligence has motivated the use of artificial neural network in epidemiological area. This presentation will present the use of neural network to learn the historical patterns of disease incidence to forecast future incidence. Some works related to the implementation of neural network for disease projection have been done for the past several years. Different implementations of disease forecasting using neural network are analyzed and evaluated. The results will show the advantages of neural network for supporting policy/decision makers in developing long term strategies regarding the number of disease incidence.

**Key Words:** disease incidence, forecasting, neural network