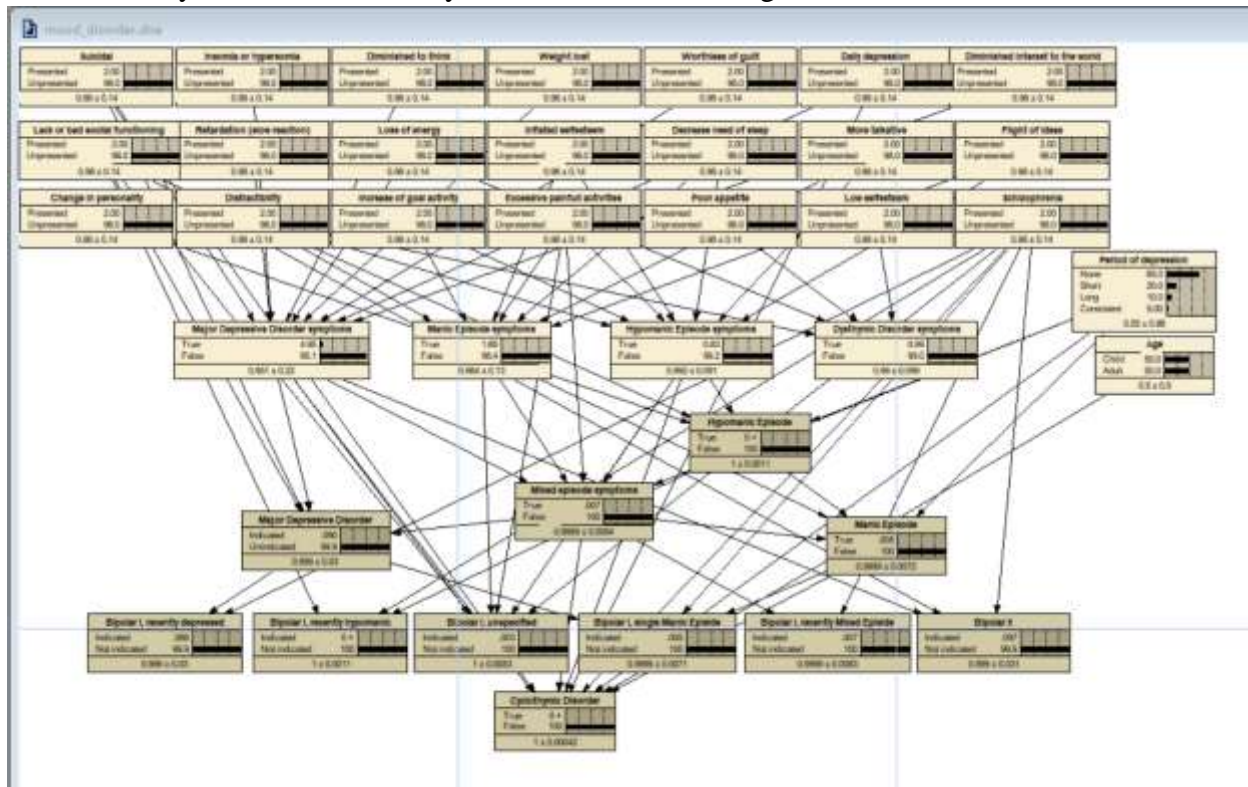# Mood disorder

You may find the network at file `moode_disorder.dne`. It is expected that you are familiar how to work in Netica. In case of any collision with Netica version, there have been used 4.16. That is if any failures to open/analyze network, try to run on 4.16, which you can get here:

https://www.norsys.com/downloads/

After you run the network you should see something like on screen below:

This network is designed to predict what type of mood disorder patient has based on their symptoms. However, since it is a Bayesian network, it is also possible to do in opposite direction, i.e. predict patient's symptoms based on pre-indicated disorders.

Note, each note has description about what it means in case of doubt. To read the description make double click on the note and you will be able to see description at Description section:

To perform the reasoning, like what doctor would do, choose which symptoms have been indicated and which haven't been. This is first 3 rows of the node. As well as indicate the age and period of depression – 2 nodes on the right.

This model has bias via symptoms, i.e. it is assumed that if the symptoms presents is unknows, the probability of present is 2%. Same holds for period of depression, the shorter period has higher probability than longest. Those biases make us keep reasoning more realistic.

Here you may be familiars with graph of the network: