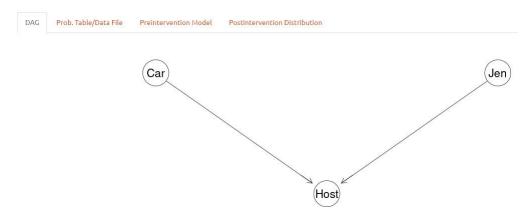
Instruction on Using the Shiny Web Application

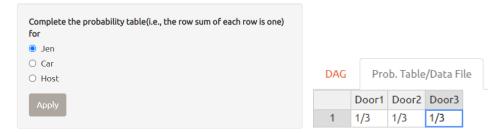
Step 1: In the top panel on the left, select one of the first four examples. For instance, select Example 4 *Should I switch*? and the example's BN model structure will show in the panel below.

Select an example
Sex as a Cause of Pregnancy
O Color Preference by Culture
Efficacy of Medication Treatment
Should I Switch?
Effect of Smoking on Forced Expiratory Volume
The Bayes Network model structure P(Host,Jen,Car)=P(Jen)P(Car)P(Jen)P(Host Jen,Car)

Meanwhile, its DAG is shown in the **DAG** tab on the right

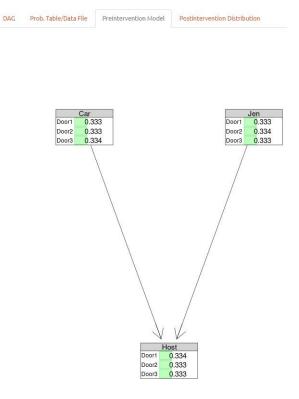


Step 2: In the third panel on the left, select a variable and complete its conditional probability table in the **Prob. Table/Data File** tab.

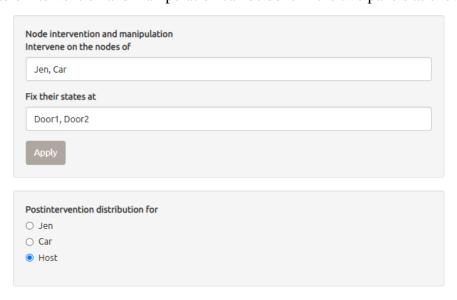


After that, press **Apply** to load the table into the BN model. Repeat this step for each variable in the example.

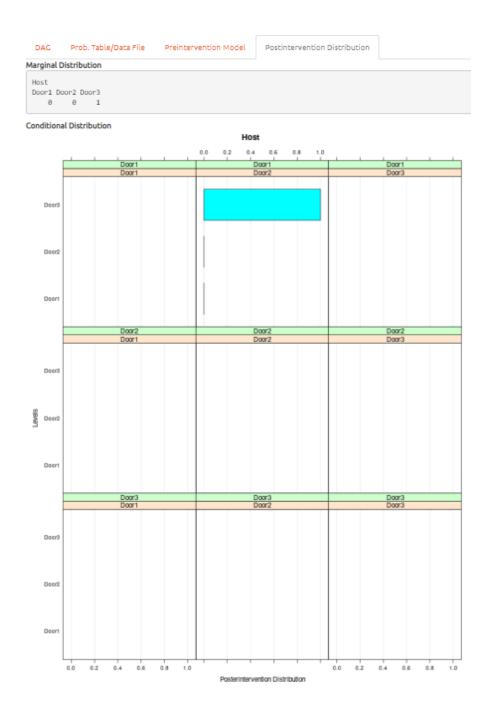
Step 3: After all the probability tables in one example are completed, press **Compile** to build the preintervention model that will be shown in the **Preintervention Model** tab.



Step 4: Variable intervention and manipulation can be done in the two panels as shown below



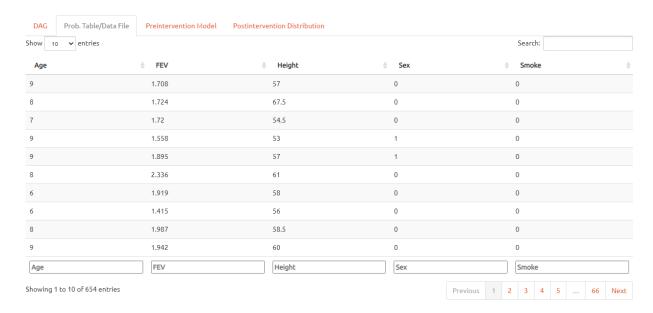
First, specify the variables you want to intervene on and then fix the variables at selected states. Second, select the variable to view its postintervention conditional (and marginal, if it is the effect variable) distributions in the **Postintervention Distribution** tab. (Note: due to space limit, the conditional distribution for some variable is not fully displayed.)



When selecting Example 5 *Effect of Smoking on Forced Expiratory Volume* in **Step 1**, instead of completing the conditional probability tables manually in **Step 2**, you press **Load** to load the example data file directly from JSDE website



The loaded data will show in the **Prob. Table/Data File** tab.



You can then follow the other steps instructed above to complete the example.