

Running the model with

Gridemiology Group

and of Public Health

Running the model with

User Input Values

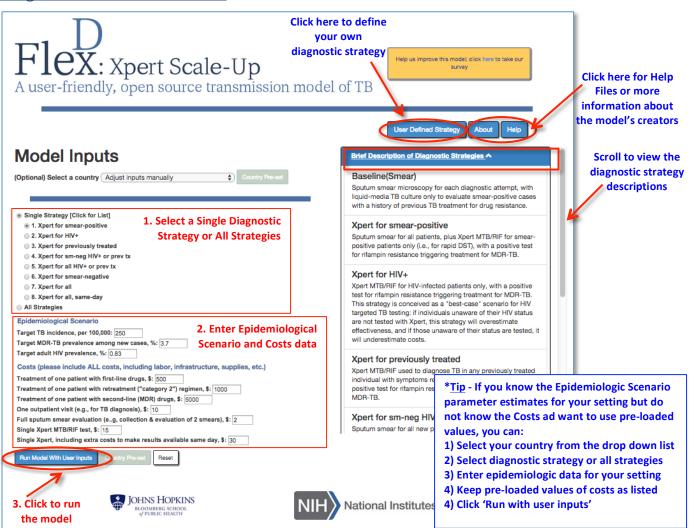
**Quick Start Guide** 

http://flexdx2.modeltb.org The TB Modeling and Translational Epidemiology Group Johns Hopkins Bloomberg School of Public Health

The Flexible Diagnostics (FlexDx) TB Model is a flexible, simple, transmission modeling tool that allows users without modeling expertise to generate evidence to aid decision-making for implementation of tuberculosis (TB) diagnostics under local conditions. Using a simple web-based interface, FlexDx incorporates local estimates of TB incidence, MDR-TB, HIV, and costs into a combined decision analysis-transmission modeling framework to generate five-year projections of epidemiological impact and cost-effectiveness of nine diagnostic strategies in reducing TB transmission and mortality.

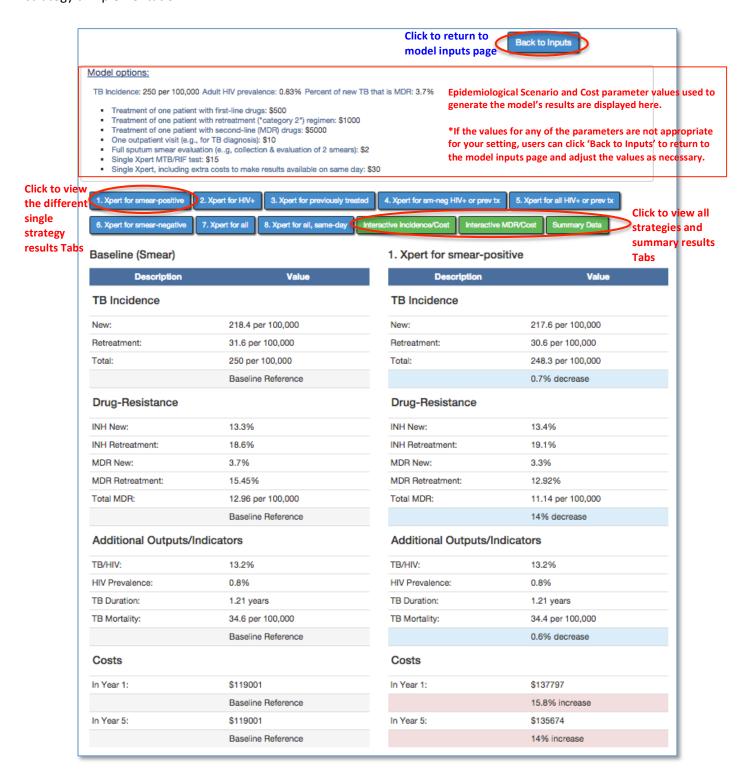
Users can run the FlexDx TB Model using their own values for key epidemiological parameters and local unit costs of TB diagnosis and treatment. Running the model with User Inputs will return projected results for key epidemiologic indicators. Users can run the model for a Single (diagnostic) Strategy or for All Strategies. Users can also run the FlexDx TB Model with pre-set values at the country level, taken from WHO estimates and other sources. The Country Pre-set Values provide some additional functionality (including exploration of uncertainty) than the model with User Input Values. See the *Quick Start Guide for Running the model with Country Pre-set Values* for more information.

# Using the FlexDx TB Web Interface



# **Single Strategy Output**

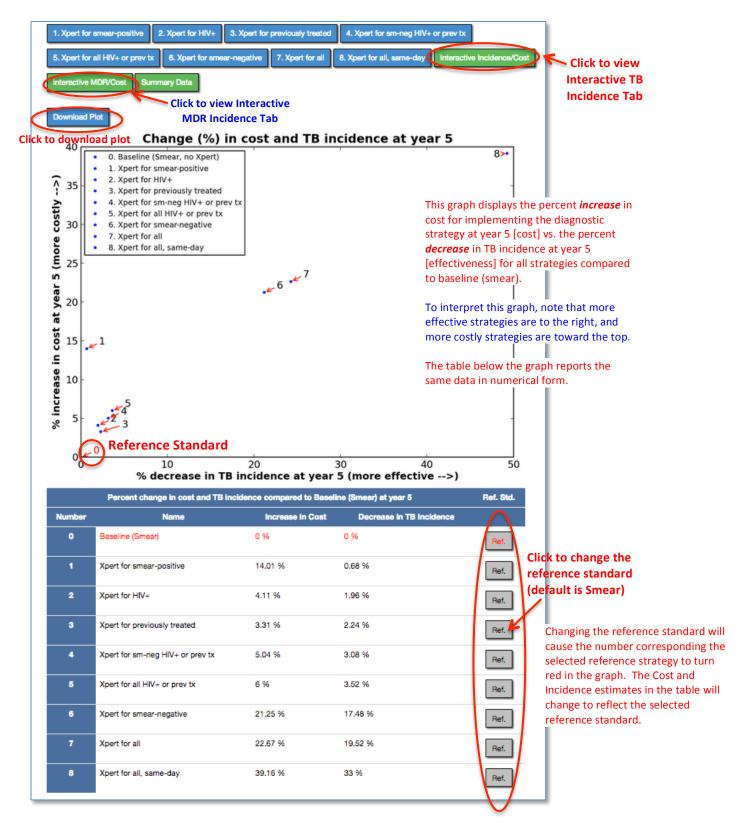
The results using User Input values are displayed below for all strategies. Note that this is the output returned when the model is run for a single strategy as well. The estimates displayed reflect projections that are expected in Year 5 of the strategy's implementation.



<sup>\*</sup>See the full FlexDx TB Model User's Manual for a more detailed description of the output.

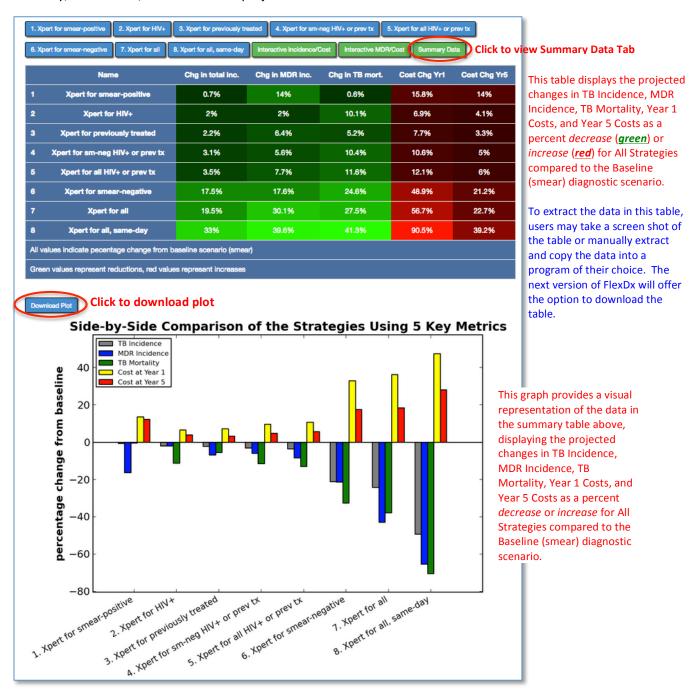
# **Interactive Incidence/Cost and MDR/Cost Tabs**

The FlexDx TB Model will generate an interactive graph and summary table Tab for TB Incidence and MDR Incidence that allow the user to change the reference standard. The results for overall TB Incidence are shown below, but the corresponding results for MDR Incidence can by seen by clicking the Interactive MDR/Cost Tab.



#### **Summary Tab**

The Summary Data Tab provides the user with a summary of the FlexDx TB Model results for TB and MDR Incidence, Mortality, Year 1 Cost, and Year 5 Cost projections.



### Limitations of the FlexDx TB Model

As with any modeling analysis, the FlexDx TB Model and the user generated results from the model have important limitations. Thus, while FlexDx can be a very useful tool to provide access to "first-pass" estimates in epidemiological settings (e.g., sub-district level data) that will never be captured by more detailed and closely-calibrated TB transmission models, it does not eliminate the necessity for more detailed models.

For more information or to access the help files for the FlexDx Model, users can click on the 'About' and 'Help' buttons on the model input page. See the full *FlexDx TB Model User's Manual* for more details on using the model.