Cancer Model

DeFAST\_Cancer\_main.m or DeFAST\_HIV\_main.m

HIV Model

DeFAST

Detailed implementation of each method to reproduce model simulation, sensitivity measures and analysis

SobolMethod

DGSM

Figures

Combine\_methods\_fig: combine all rankings of all three methods

DeFAST figures

Sobol figures

DGSM figures

Sobol’s method ranking only run the following:

* Sobol\_Cancer\_figs.m

Or

* Sobol\_HIV\_fig.m

DeFAST analysis only run the following:

* DeFAST\_Cancer\_figs.m

Or

* DeFAST\_HIV\_fig.m

DGSM’s ranking only, run the following:

* Figure\_DGSM\_HIV.m

Or

* Figure\_DGSM\_HIV.m

Generate figures appeared in the manuscript, which based on pre-generated data

Sobol\_Cancer\_main.m or Sobol\_HIV\_main.m

DGSM\_Cancer\_main.m or DGSM\_HIV\_main.m