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* ODE\_URT\_air.m: file containing ode model with Upper respiratory tract and aerosol particles (see Eq. 3 & 4)
* ODE\_URT.m: file containing ode model without aerosol particles
* model\_out.m: function giving model output for given parameter inputs formatted for use in objective function evaluation using nlinfit
* main.m: using entered/or loaded data and model\_out.m this file will give least-squares parameter estimates with 95% confidence intervals (adjust data, choice of ODE—URT\_air for male and female groups or URT for donor and contact groups, and selection of fixed parameters based on subjects group)
* func\_RNA\_v\_infect: infectious virus as a function of total RNA
* main\_rna\_v\_infect: using entered/or loaded data and func\_RNA\_v\_infect this file will give least-squares parameter estimates with 95% confidence intervals (adjust data based on subject group)
* Other note: w is a vector of the coefficients of the 5th degree polynomial fitting the % weight change data using polyfit, and xi is the initial weight coefficient (see Fig 2).