Targeting diabetes prevention to more disadvantaged groups improves cost-effectiveness: Implications of inequality in type 2 diabetes from theoretical interventions

Model Validation

The model underwent validation to see if it could accurately recapitulate the incidence of type 2 diabetes, and deaths among people with type 2 diabetes, for the years data were available (2015-2019). Syntax for these tests is available online at `https://github.com/jimb0w/Diabetes_Equity` in *"The Black Plot.do"*.

In figure 1, the actual and modelled incidence counts of type 2 diabetes are plotted against age, stratified by sex and socioeconomic disadvantage. It can be seen that the model recapitulates the incidence of type 2 diabetes well for the years data are available.

In figure 2, the actual and modelled mortality counts among people with type 2 diabetes are plotted against age, stratified by sex and socioeconomic disadvantage. As with incidence, the model accurately recapitulates reality for 2015-2019.
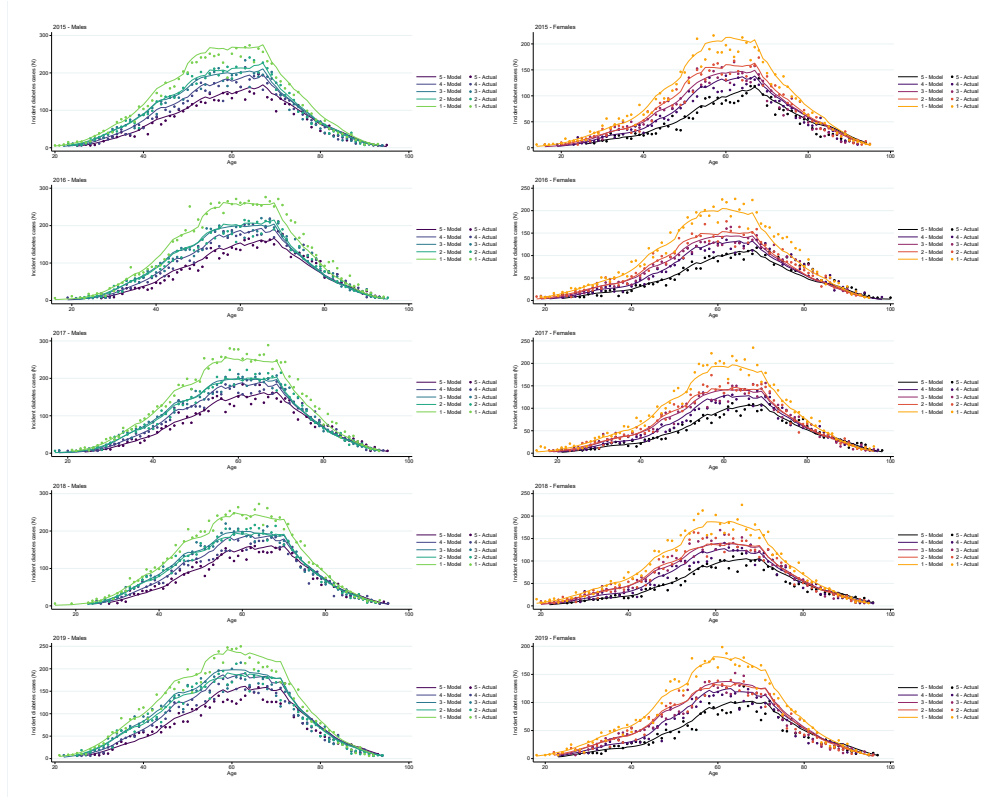
Figure 1: Actual and modelled incidence (counts) of type 2 diabetes from 2015-2019, by age, sex, and socioeconomic disadvantage
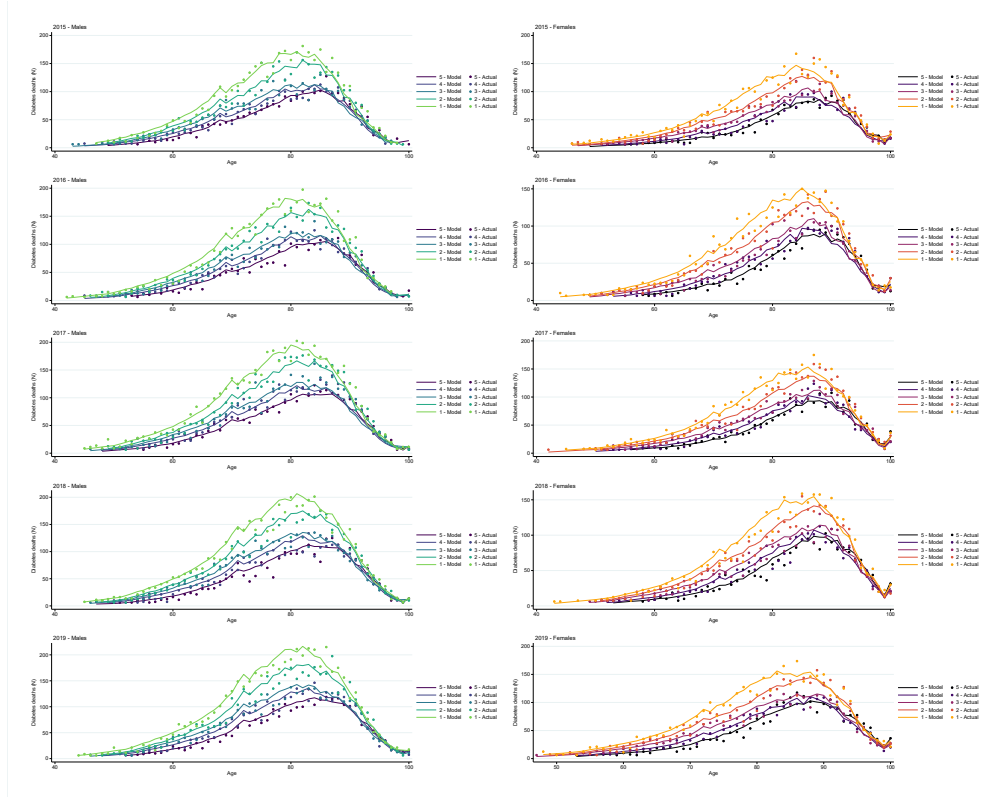
Figure 2: Actual and modelled mortality (counts) among people type 2 diabetes from 2015-2019, by age, sex, and socioeconomic disadvantage