* This folder contains example code for the work of Riley et al. (submitted)

ref: "Riley RD et al. A general sample size framework for developing or updating a predictive algorithm: with application to clinical prediction models" (submitted)

A pre-print can be found here: <https://arxiv.org/abs/2504.18730>

* The code covers steps 6 to 10 of the sample size calculation (see Fig 3 in paper)
* Each file relates to one particular model development approach
* The data setup phase has already taken place (using steps 1 to 5 in Fig 3 in the paper), based on selecting a set of candidate predictors, defining the case mix distribution in the target population, and a reference model – this is all detailed in Fig 3 of the paper.
* Thus, in the code we simply read in these pre-generated development and evaluation synthetic datasets, as part of the process of fitting (in a particular sample size for model development) and evaluating (in the large target population) 1000 models
* The development data (RR\_dev) and evaluation data (RR\_eval) are available in this folder too