Targets struggling to be met in previous experiment: incidence in children

A Hypothesis is that this target is causing others such as vulnerable population to blow up, dropping the target from calibration gives these results (this run I forgot to plot migrant TB, but it was underestimated):

A graph with red and blue dots

Description automatically generated

Now the targets not being met are historical incidence, LTBI, and migrant TB.

In runs where I have individually dropped these other incidence targets, the model returns to its previous behaviour of overshooting vulnerable population wildly, but goes back to underestimating children’s incidence

Could we place another factor on the progression rates for the vulnerable group only to allow extra flexibility for the model to reach this target? For example how I added in the code, in allocate parameters. Would we need a similar new parameter to put onto reactivation?