

1 Initial model

In this model, we have three populations: "go," "grow," and "gone." They each have the same birthrate and same deathrate. Additionally, go can change into grow, and grow and change into gone. The idea is to have two epithelial cell types (go and grow) and one endothelial cell type (gone). Perastalsis is not implemented in this model.

1.1 Semi-arbitrary parameter simulation

```
birthRate = 1.15
deathRate = 1
growToGoRate = 0.1
goToGoneRate = 0.1
startingGrow = 100
startingGo = 0
startingGone = 0
duration = 8
totalSimulations = 10000
dataPoints = 100
```







