

Courseware

Updates & News

Calendar

Wiki

Discussion

Progress

PART C - PATIENT NON-COMPLIANCE

A very common problem is that a patient may not consistently take the drugs they are prescribed. They can sometimes forget, refuse to take their prescription, or are unable to afford so skip doses to save money.

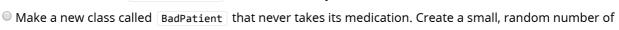
Review about how we've implemented the simulations in the past two problem sets, and spend some time thinking about what you would change to model this non-compliant behaviour.

Now that you've finished the above thought experiment, answer the following set of questions.

PROBLEM 1 - MODELING APPROACHES (5/5 points)

Which of the following approaches would be the **best** for modeling this?

- Make a subclass of ResistantVirus that deterministically does not respond to medication.
- Make a subclass of ResistantVirus that stochastically does not respond to medication.
- Make a subclass of TreatedPatient that deterministically does not take its medication.
- Make a subclass of TreatedPatient that stochastically does not take its medication.



Write a new type of simulation to model this behavior.

these and intersperse them with the regular TreatedPatient s.

Final Check

Save

You have used 1 of 2 submissions

PROBLEM 2 - NON-COMPLIANCE (5/5 points)

If we re-ran the simulations from the first problem of this problem set, with 20% of patients not complying to their drug regimen...

Fewer patients would be cured or in remission at the end of the simulations.



- About the same number of patients would be cured or in remission at the end of the simulations.
- More patients would be cured or in remission at the end of the simulations.
- Because the simulation is non-deterministic, it could be any of the above depending on the results of the trial.

Final Check

Save

You have used 1 of 2 submissions

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