6/5/2015 V003-24Month

In [1]:

#error checking measures

```
import csv
import matplotlib.pyplot as plt
numberofGraphs = 15
def csv_dict_writer(path, fieldnames, data):
   with open(path, "wb") as out file:
      writer = csv.DictWriter(out_file, delimiter=',', fieldnames=fieldnames)
      writer.writeheader()
      for row in data:
          writer.writerow(row)
masterListforReplications = []
field_names = "QALY,TotalCost".split(",")
from PlottingSystemClass import PlottingSystem
from SimulationSystemClass import SimulationSystem
plottingsystem = PlottingSystem(plt)
order = 1
%matplotlib inline
for i in range(2):
   sysSimulation = SimulationSystem(3000, "PatientList/Patients_list_{}.csv".format(i
   sysSimulation.SystemSimulation()
   plottingsystem.plot(sysSimulation,order,i,masterListforReplications)
   order += (numberofGraphs*1)
   del sysSimulation
print order
csv_dict_writer("MList.csv",field_names,masterListforReplications)
CURRENT ITERATION: 0
Average QALY: 12.5193705506
Average Medical Cost: 26036.7212333
Average MD: -13.1475014388
Patient 0: List of Medication Progression is [0, 1, 1, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,
Patient 0: List of Final Medication Amount is [5, 3, 1, 0, 0]
Patient 1: List of Medication Progression is [0, 2, 2, 3, 3, 3, 21, 5, 5, 5, 5, 5, 3
0, 30, 30, 30, 30, 8, 9, 9, 5, 5, 5, 5, 5, 5]
Patient 1: List of Final Medication Amount is [2, 3, 4, 2, 5]
Patient 2: List of Medication Progression is [0, 1, 1, 6, 6, 6, 6, 6, 9, 9, 9, 9,
0, 30, 30, 30, 30, 30]
Patient 2: List of Final Medication Amount is [6, 4, 0, 2, 0]
Patient 3: List of Medication Progression is [0, 1, 1, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,
Patient 3: List of Final Medication Amount is [5, 3, 0, 1, 0]
Patient 4: List of Medication Progression is [0, 1, 1, 7, 7, 12, 12, 5, 5, 5, 5, 5,
30, 30, 30, 30, 30, 30, 30, 30, 30]
Patient 4: List of Final Medication Amount is [4, 0, 1, 1, 2]
CURRENT ITERATION: 1
Average QALY: 12.4890197565
Average Medical Cost: 26567.0556333
Average MD: -13.2691357262
```

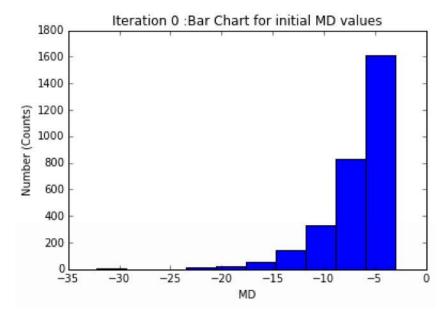
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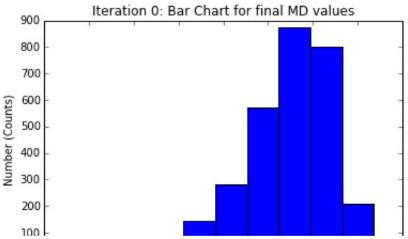
Patient 0: List of Medication Progression is [0, 1, 1, 6, 6, 6, 6, 6, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 8, 10, 10, 10, 10, 10, 10, 10, 30, 30, 30, 30, 30, 3 0, 30, 30, 30] Patient 0: List of Final Medication Amount is [8, 6, 4, 0, 2] Patient 1: List of Final Medication Amount is [8, 6, 4, 0, 2] Patient 2: List of Medication Progression is [0, 1, 1, 6, 6, 6, 6, 6, 6, 6, 8, 8, 30, 30, 30] Patient 2: List of Final Medication Amount is [7, 5, 3, 0, 1] Patient 3: List of Medication Progression is [0, 1, 1, 6, 6, 6, 6, 6, 8, 8, 8, 8, 8, 0, 30, 30, 30, 30, 30] Patient 3: List of Final Medication Amount is [8, 6, 4, 0, 2] Patient 4: List of Medication Progression is [0, 1, 1, 6, 6, 6, 6, 6, 8, 9, 9, 9 0, 30, 30, 30, 30, 30, 30, 30] Patient 4: List of Final Medication Amount is [9, 7, 1, 4, 2]

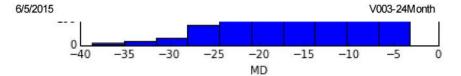
C:\Users\Martin Nguyen\Anaconda\lib\site-packages\matplotlib\pyplot.py:424: RuntimeW arning: More than 20 figures have been opened. Figures created through the pyplot in terface (`matplotlib.pyplot.figure`) are retained until explicitly closed and may co nsume too much memory. (To control this warning, see the rcParam `figure.max open wa rning`).

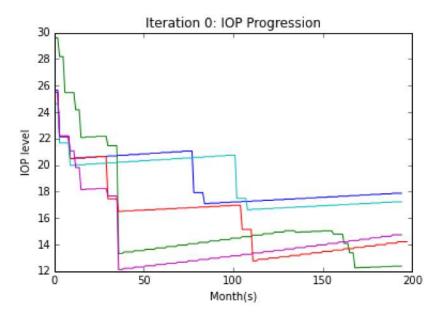
max_open_warning, RuntimeWarning)

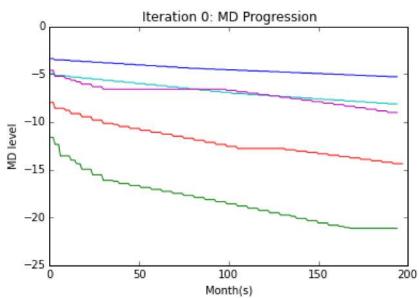
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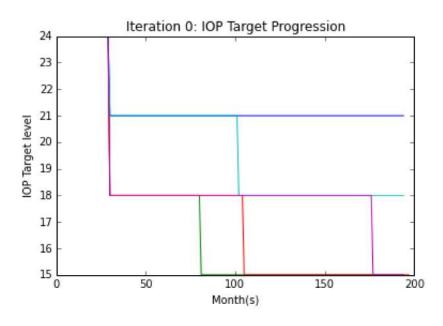




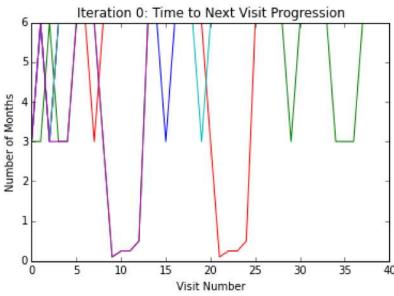


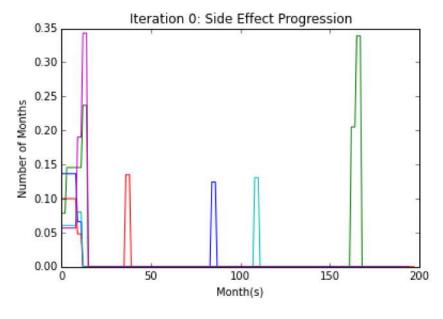


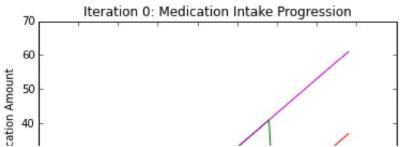


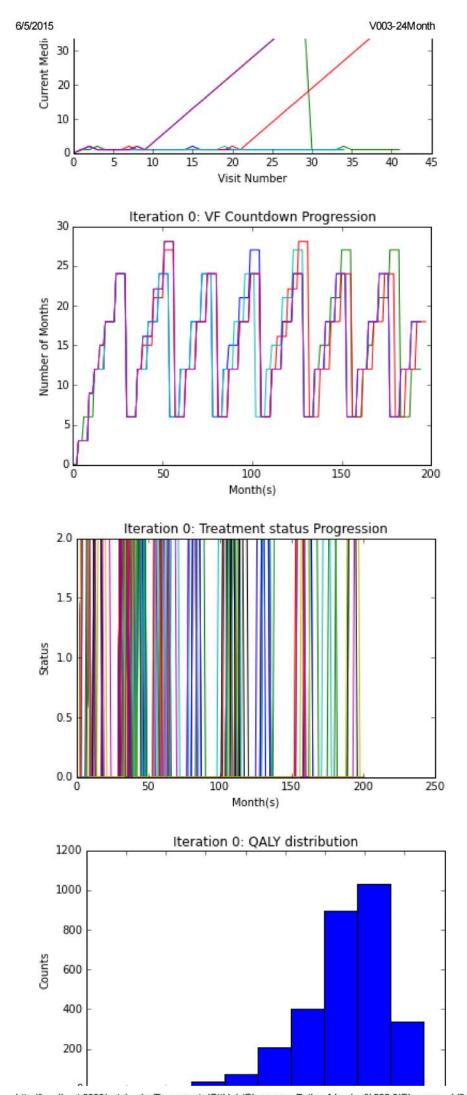


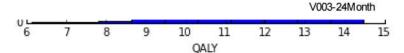


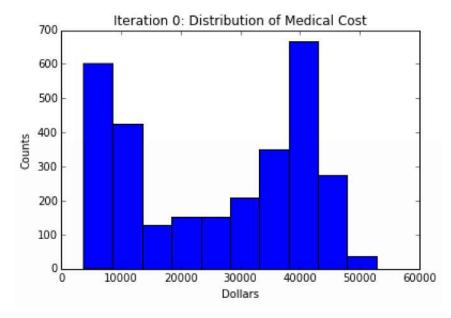


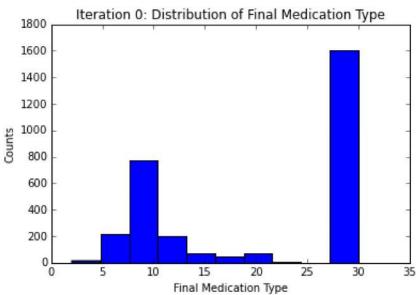


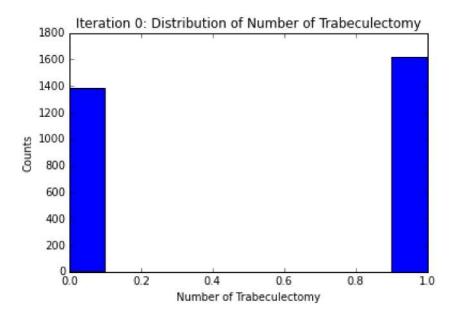


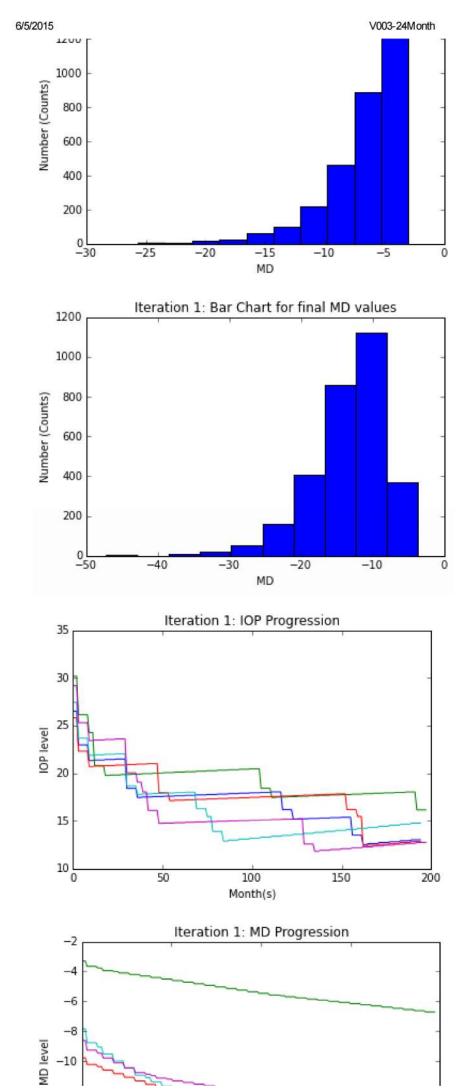


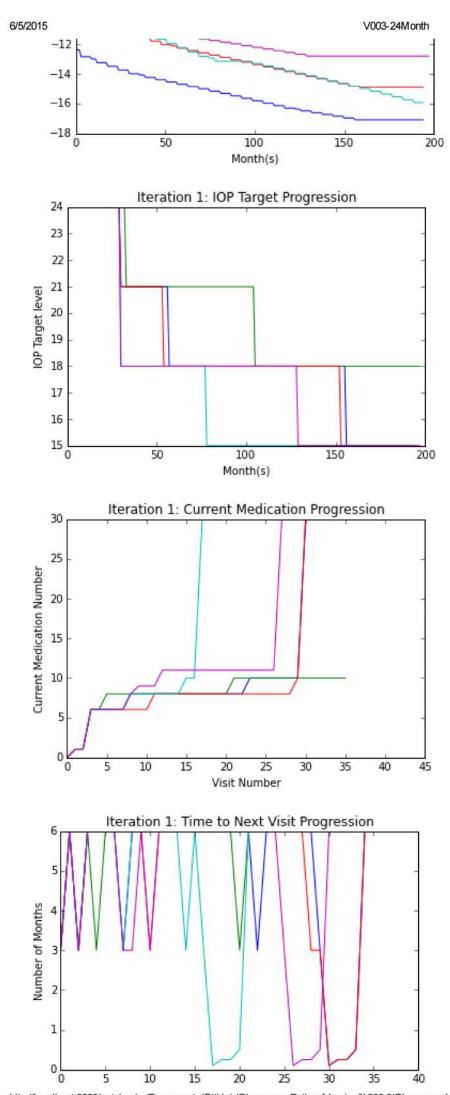




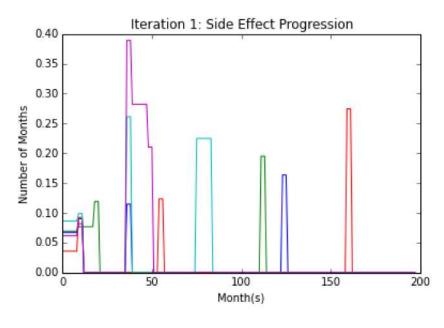


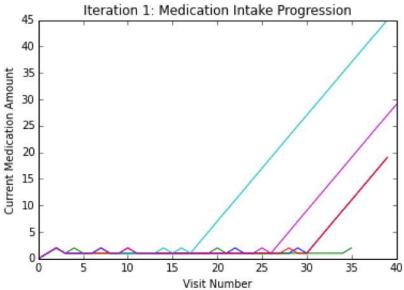


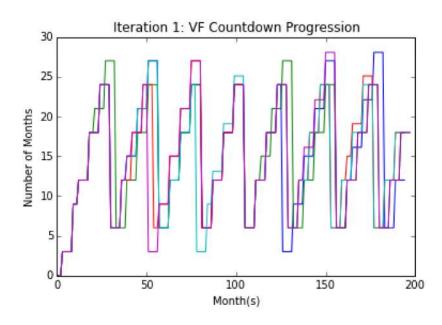


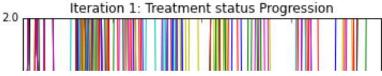


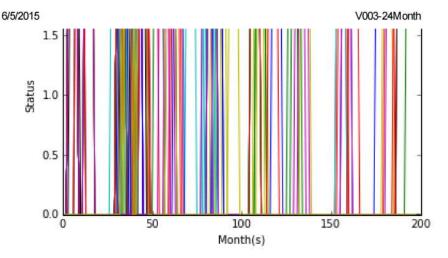
Visit Number

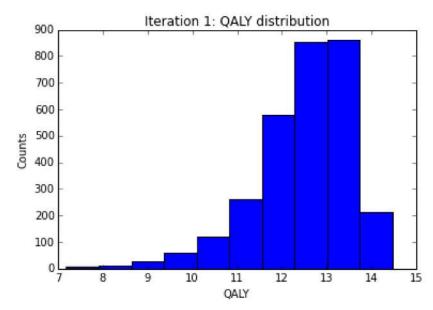


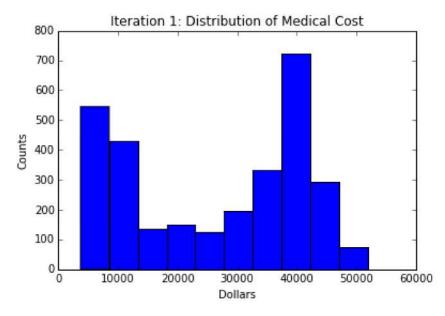


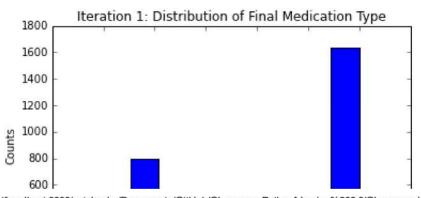


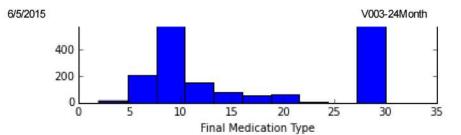


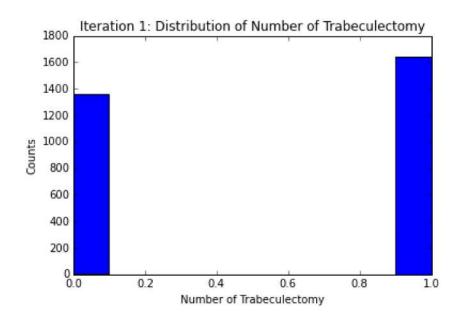












In []: