6/5/2015 V003-6Month

In [1]:

#error checking measures

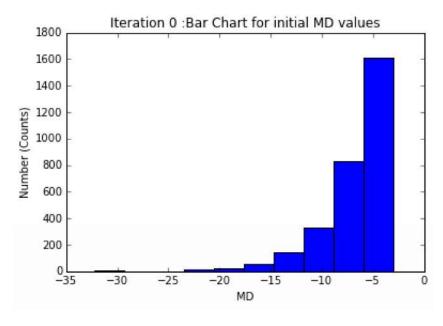
```
import csv
import matplotlib.pyplot as plt
numberofGraphs = 15
def csv_dict_writer(path, fieldnames, data):
   with open(path, "wb") as out file:
      writer = csv.DictWriter(out_file, delimiter=',', fieldnames=fieldnames)
      writer.writeheader()
      for row in data:
         writer.writerow(row)
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: 12.640242686
Average Medical Cost: 28049.9229667
Average MD: -12.618947864
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, 1, 1, 6, 7, 7, 7, 5, 5, 5, 30, 30,
30, 30, 30, 30, 30, 30, 30, 30, 30]
Patient 1: List of Final Medication Amount is [5, 1, 2, 0, 3]
Patient 2: 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 2: List of Final Medication Amount is [6, 4, 2, 0, 0]
Patient 3: List of Final Medication Amount is [4, 0, 2, 0, 1]
Patient 4: List of Medication Progression is [0, 1, 1, 6, 6, 6, 6, 6, 8, 8, 8, 8, 8,
30, 30, 30, 30, 30]
Patient 4: List of Final Medication Amount is [8, 6, 4, 0, 2]
CURRENT ITERATION: 1
Average QALY: 12.6143496923
Average Medical Cost: 28670.7743333
Average MD: -12.7246744944
```

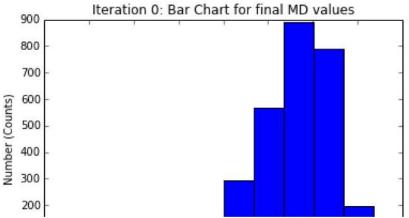
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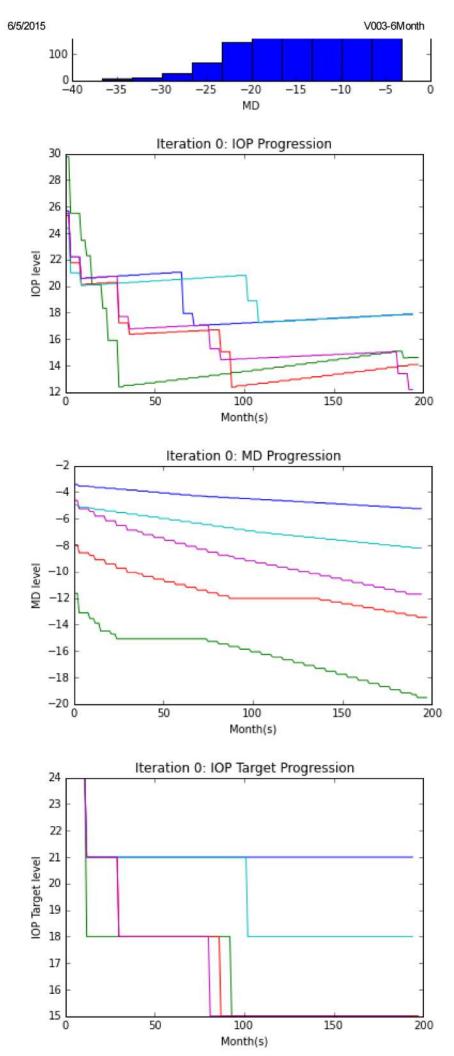
```
Patient 0: List of Medication Progression is [0, 1, 1, 7, 7, 7, 13, 5, 5, 5, 5, 5,
0, 30, 30, 30, 30]
Patient 0: List of Final Medication Amount is [4, 1, 2, 1, 2]
Patient 1: List of Medication Progression is [0, 1, 1, 6, 7, 7, 7, 13, 5, 5, 5, 5,
5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 16, 16, 1
6]
Patient 1: List of Final Medication Amount is [5, 5, 2, 2, 3]
Patient 2: List of Medication Progression is [0, 2, 2, 2, 16, 17, 17, 5, 5, 5, 5, 5,
30, 30, 30, 30, 30, 30, 30, 30, 30]
Patient 2: List of Final Medication Amount is [0, 4, 0, 2, 2]
Patient 3: List of Medication Progression is [0, 2, 2, 2, 16, 16, 18, 18, 19, 30, 3
Patient 3: List of Final Medication Amount is [0, 8, 4, 6, 2]
Patient 4: List of Medication Progression is [0, 2, 2, 2, 17, 17, 17, 20, 20, 2
Patient 4: List of Final Medication Amount is [0, 6, 0, 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_warning`).

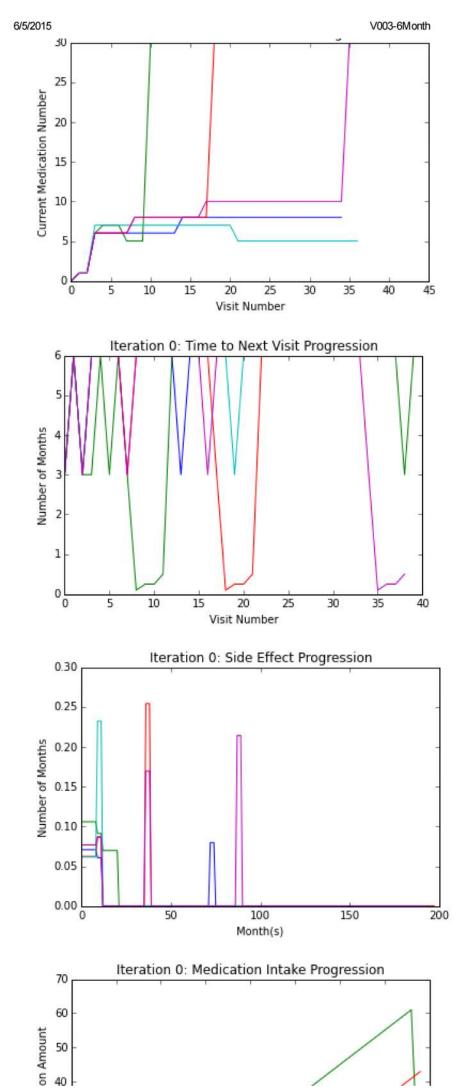
max_open_warning, RuntimeWarning)

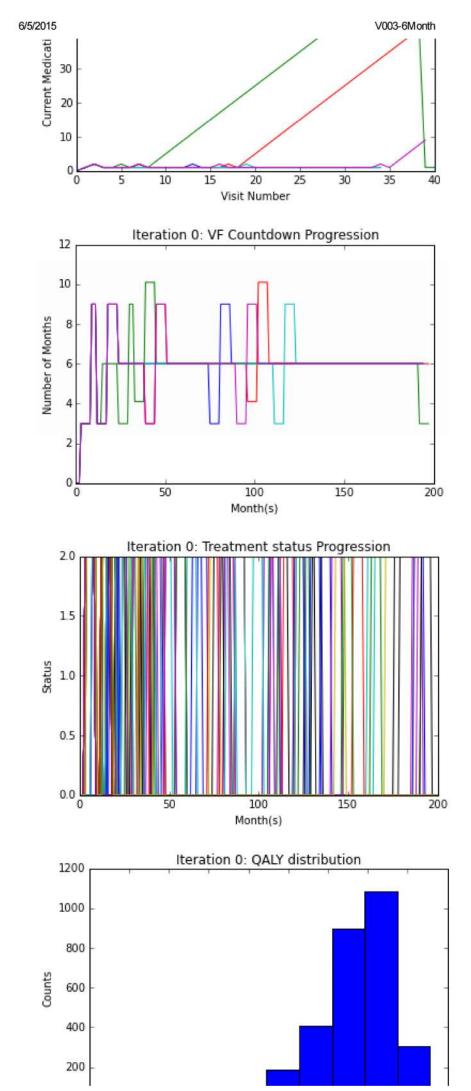


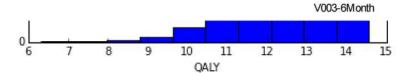


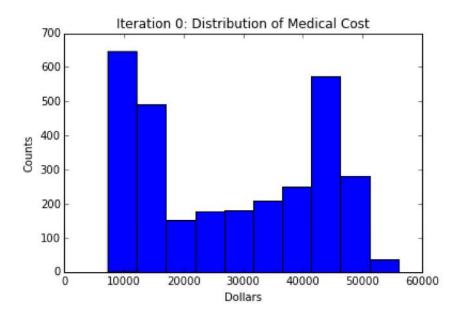


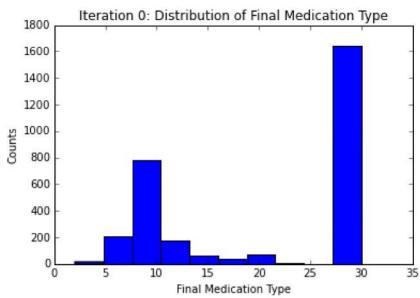
Iteration 0: Current Medication Progression

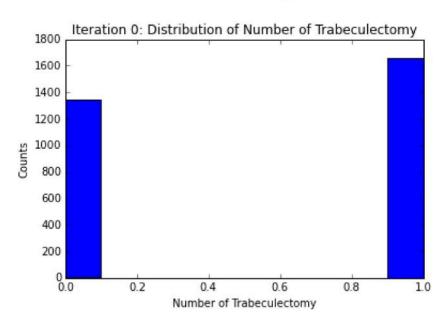


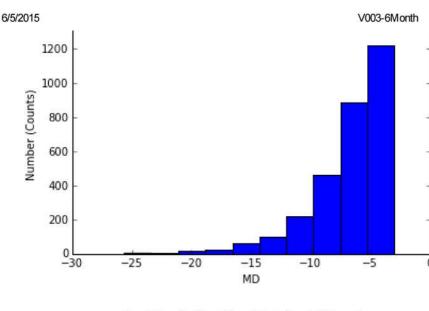


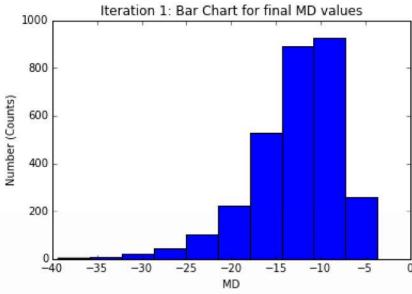


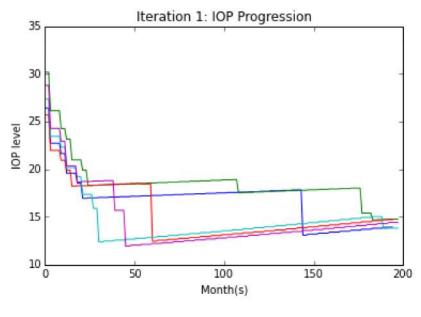


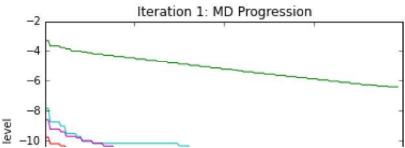


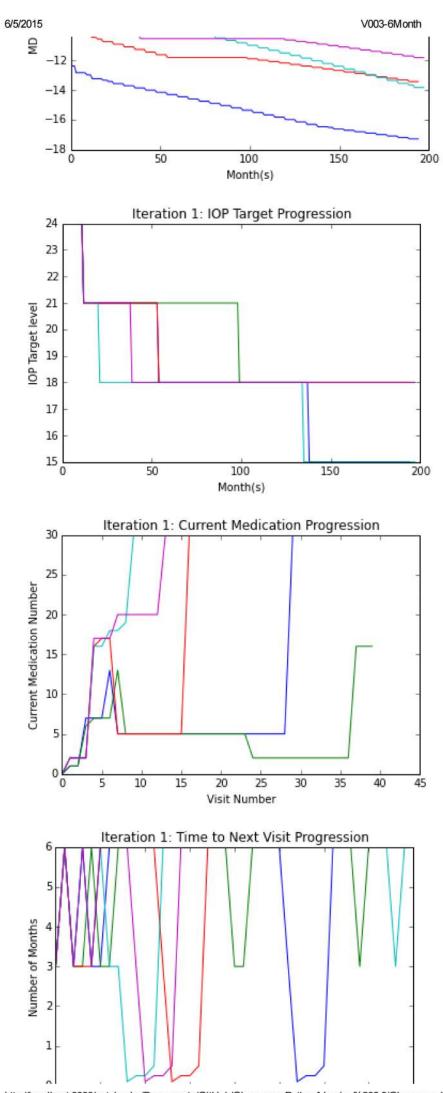




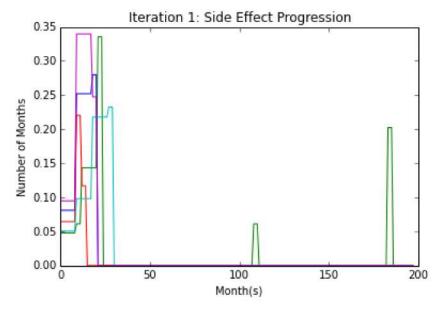


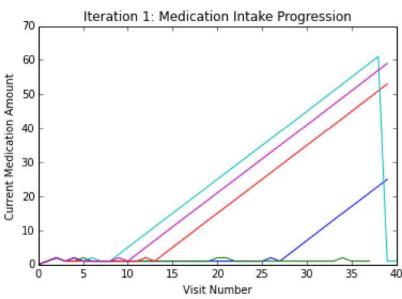


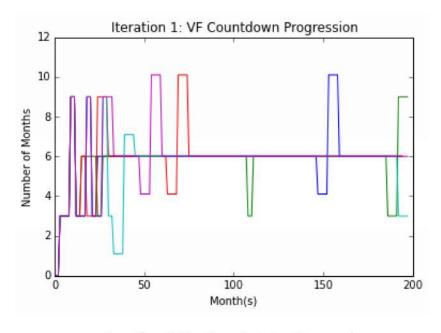




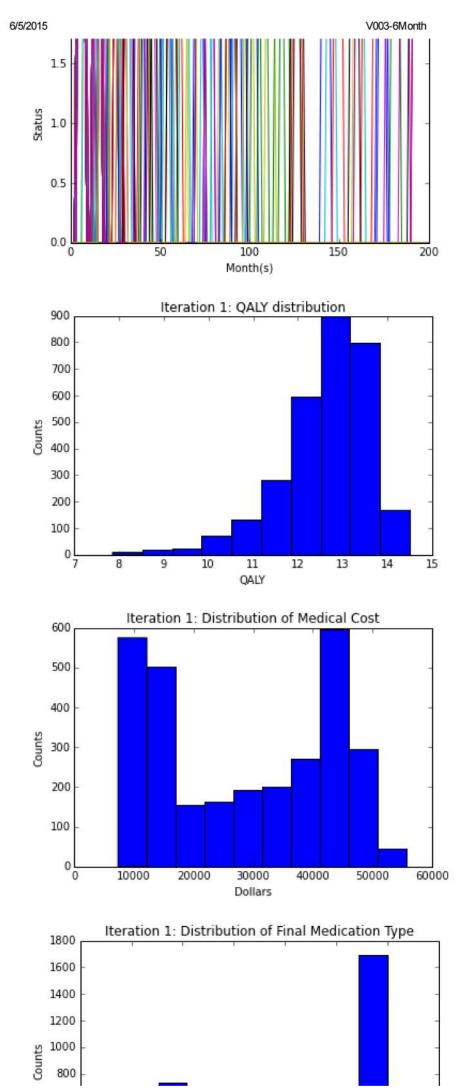


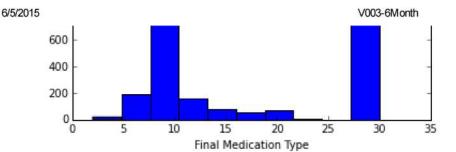


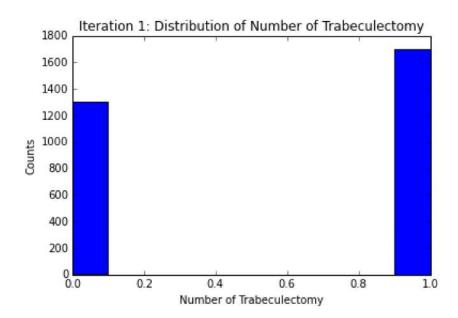












In []:			