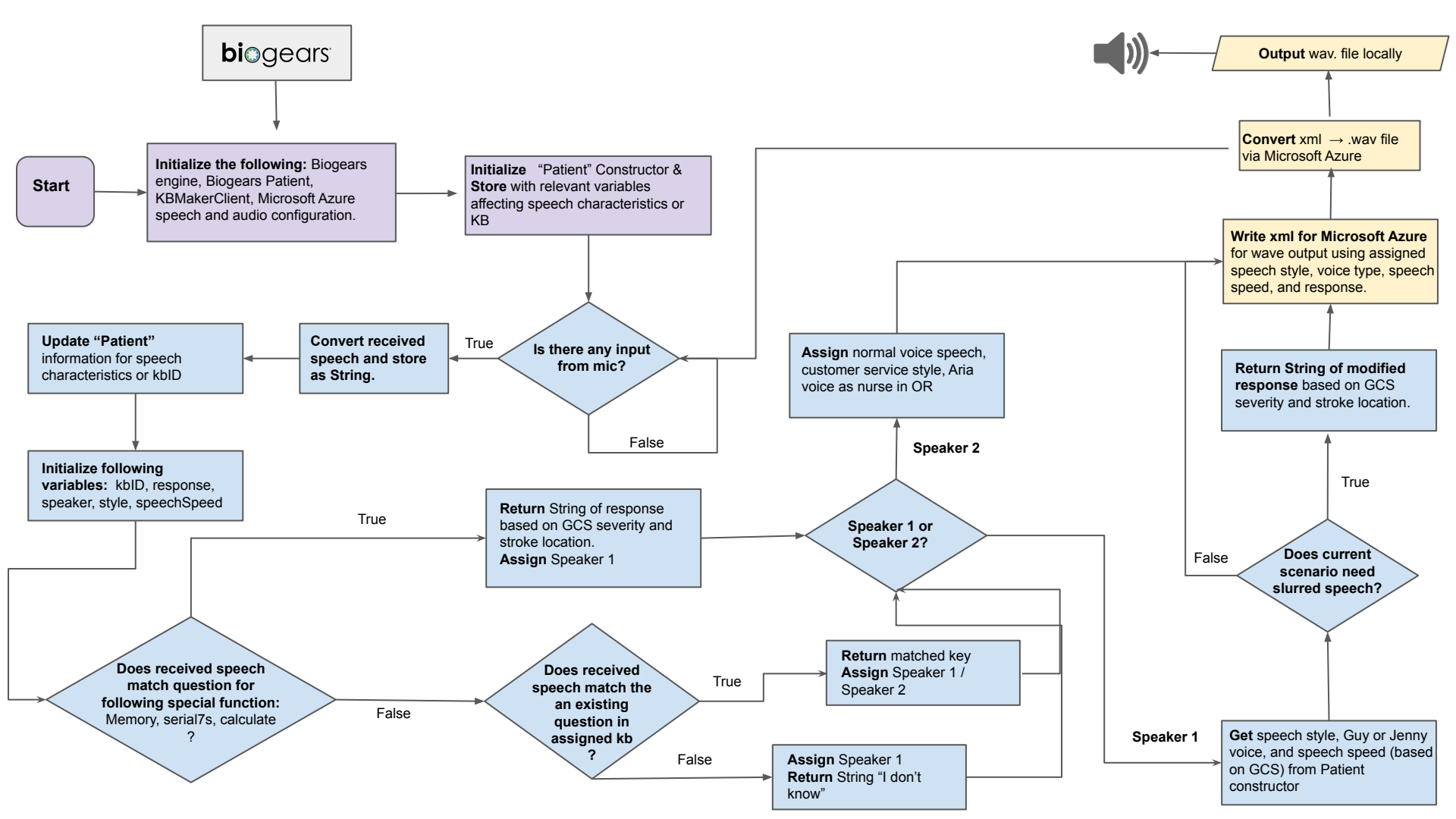
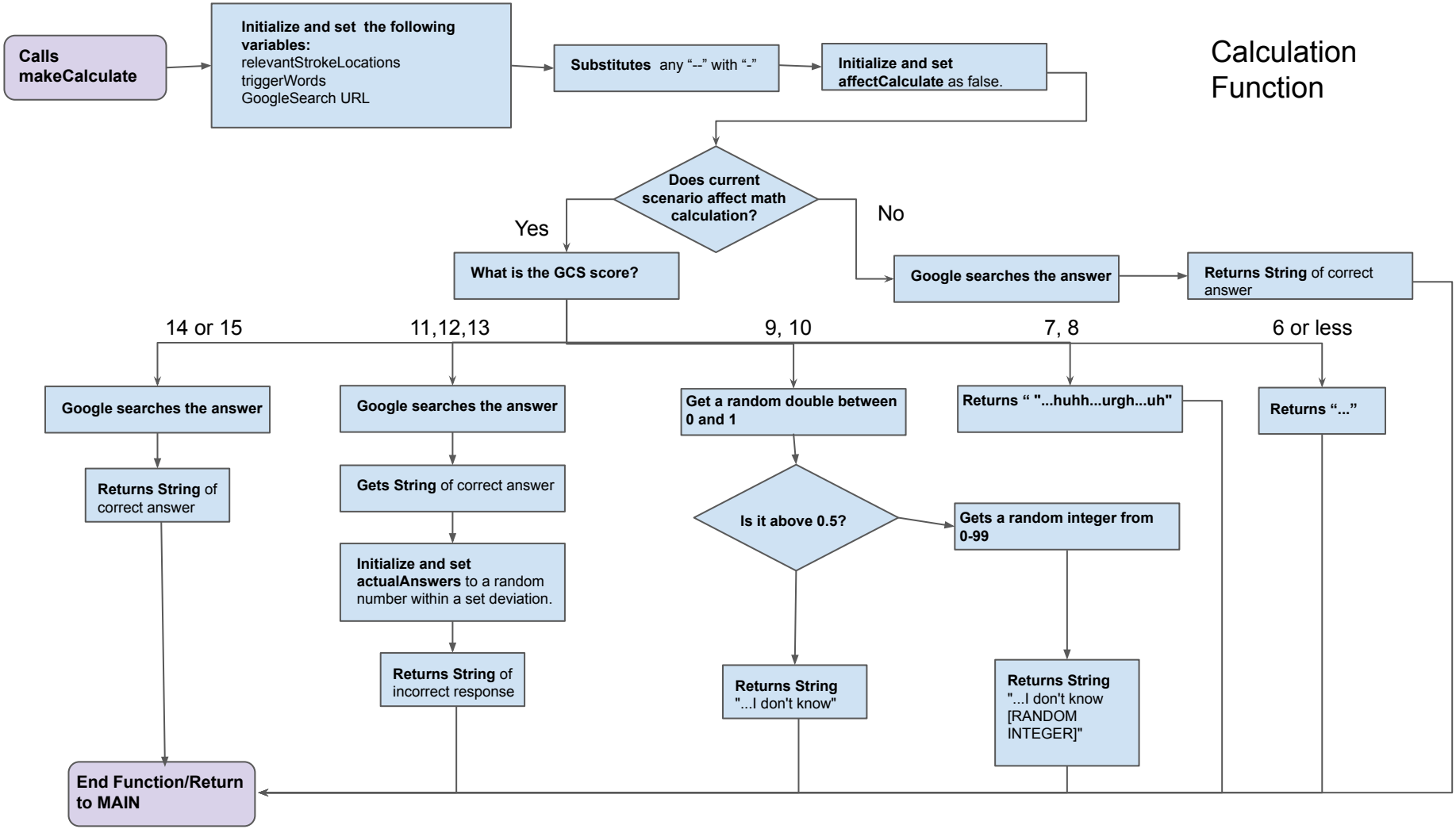
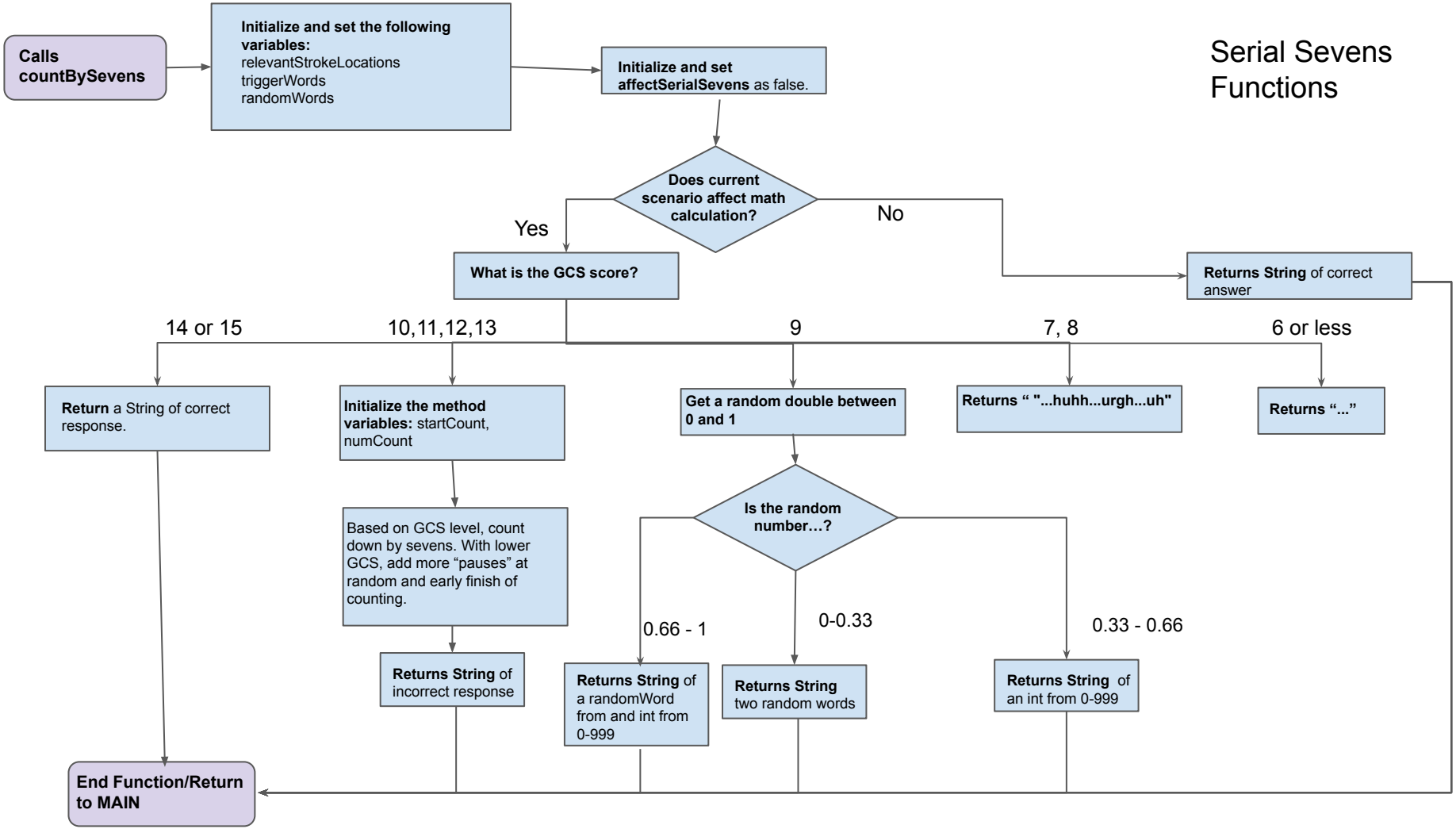

biogears
Start
Initialize the following: Biogears engine, Biogears Patient, KBMakerClient, Microsoft Azure speech and audio configuration.
Initialize "Patient" Constructor & Store with relevant variables affecting speech characteristics or KB
Is there any input from mic?
True
False
Convert received speech and store as String.
Update "Patient" information for speech characteristics or kbID
Initialize following variables: kbID, response, speaker, style, speechSpeed
Does received speech match question for following special function: Memory, serial7s, calculate ?
True
False
Return String of response based on GCS severity and stroke location.
Assign Speaker 1
Does received speech match the an existing question in assigned kb ?
True
False
Return matched key
Assign Speaker 1 / Speaker 2
Assign Speaker 1
Return String "I don't know"
Speaker 1 or Speaker 2?
Speaker 2
Assign normal voice speech, customer service style, Aria voice as nurse in OR
Speaker 1
Get speech style, Guy or Jenny voice, and speech speed (based on GCS) from Patient constructor
Does current scenario need slurred speech?
True
False
Return String of modified response based on GCS severity and stroke location.
Write xml for Microsoft Azure for wave output using assigned speech style, voice type, speech speed, and response.
Convert xml → .wav file via Microsoft Azure
Output wav. file locally

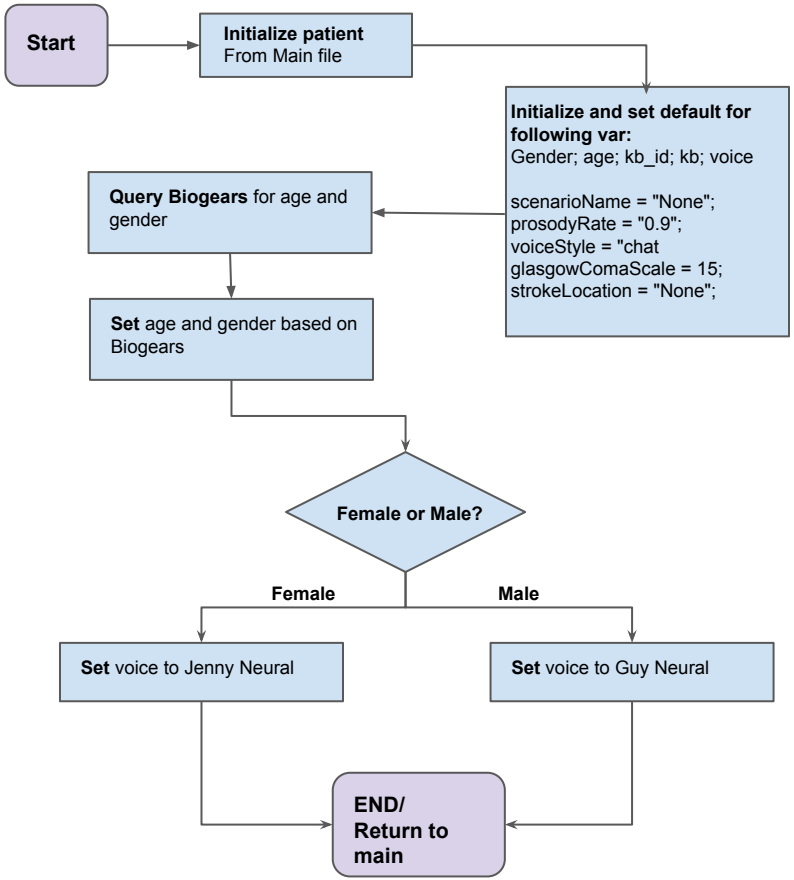
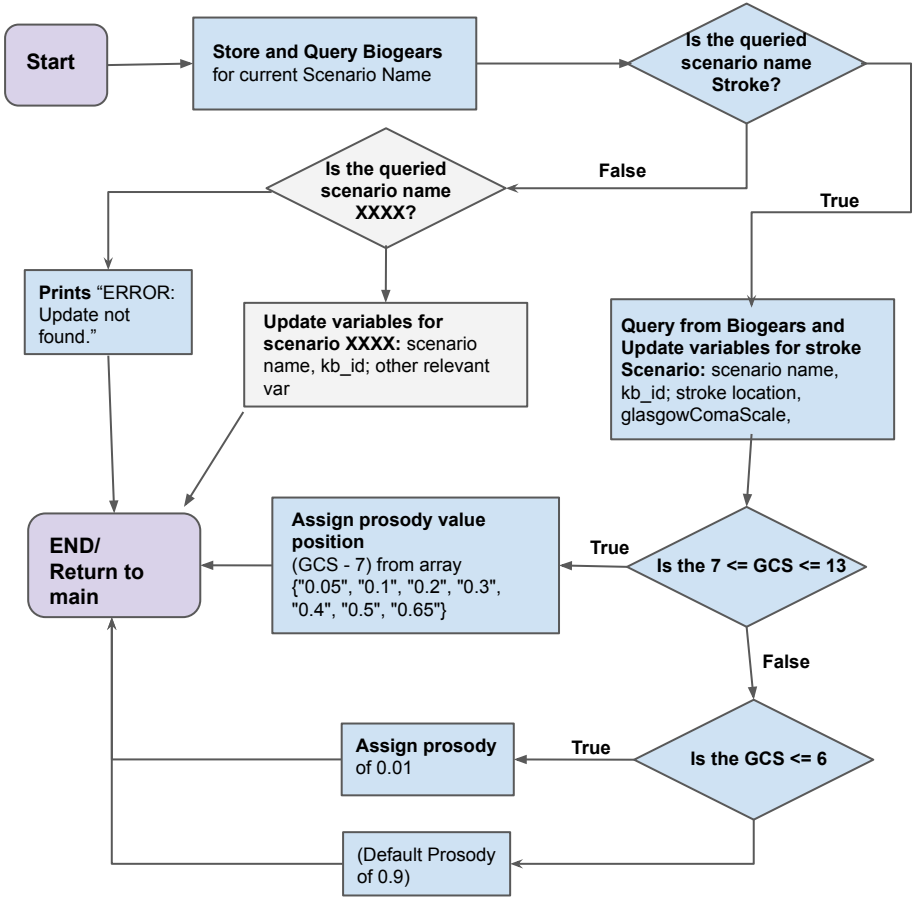
Calculation Function



Serial Sevens Functions



Patient Constructor Initialization (1st time)



Patient Update Method