

**Patient ID:**

44 year-old male. CC: Palpitations. PMHx: ?HTN

Weight 90kg NKDA

<u>STATE NAME</u>	<u>PATIENT STATUS</u>	<u>ACTIONS DESIRED</u>	<u>TRANSITIONS</u>
Baseline	Standard Man		Start simulation
Stable VT	37.5 110/75 150 14 100% Cardiac Override: VT (150)	H&P Metabolic, cardiac workup Cardioversion (shock or meds)	Time in state > 180 sec go to Unstable VT If amio 150mg or lido 100mg given, go to Transient Sinus If sync cardioversion go to Brief Asystole
Unstable VT	90/50 150 20 98%	Synchronized cardioversion	If amio 150mg or lido 100mg given, go to Transient Sinus If time in state > 90 sec go to VF If unsync cardioversion go to VF If sync cardioversion go to Brief Asystole
Ventricular Fibrillation	0/0 fib 10 90%	Defibrillation	If defibrillated > 200J go to Transient Sinus If time in state > 120 seconds go to Death
Brief Asystole	Cardiac Override: Asystole		Time in state 4 sec go to Transient Sinus Rhythm
Transient Sinus Rhythm	140/80 90 14 100% Cardiac Override: NSR	Start antiarrhythmic drip	If time in state >90 sec go to Recurrent VT If drip started (amio or lido) go to Stabilized
Recurrent VT	37.5 110/75 150 14 100% Cardiac Override: VT (150)	Start antiarrhythmic drip	If drip started go to Stabilized If sync cardioversion go to Brief Asystole 2 If unsync cardioversion go to VF2 If time in state > 90s go to VF2
Ventricular Fibrillation 2	0/0 fib 10 90%	Defibrillation	If defibrillated > 200J go to Transient Sinus 2 If time in state > 120 seconds go to Death
Brief Asystole 2	Cardiac Override: Asystole		Time in state 4 seconds go to Transient Sinus Rhythm 2
Transient Sinus Rhythm 2	140/80 90 14 100% Cardiac Override: NSR	Start antiarrhythmic drip	If time in state > 90 seconds go to Final VT If drip started (amio or lido) go to Stabilized
Final VT	37.5 110/75 150 14 100% Cardiac Override: VT (150)	Start antiarrhythmic drip	If drip started go to Stabilized If sync cardioversion go to Stabilized If time in state > 60s , rhythm goes to VF If time in state > 90s, go to Death
Stabilized	140/70 80 20 100% Cardiac rhythm: NSR	Admit to CCU	
Death	Cardiac Rhythm: Asystole		