

# **JS Planning**

### Constants

**Object - Patient Info** 

(Includes some initial values)

### **State Variables**

### **Class - Patient**

### >> Hemodynamics

- Number of vasopressors
- Negatively impacted by intake ultrafiltration

### >> Metabolic

- Number of vasopressors
- MAP

### >> Respiratory

- FiO2 on the ventilator >> simplified this way for v1.0
- METHOD: will involve interaction between hourly intake ultrafiltration to increase the FIO2

### **Cached Elements**

### **Current Lab Values**

(Array over each interval will add new values with time)

- Changes with each interval
- change when new orders signed Values will be RANDOM based on current metabolic "phenotype"

### **Current Rx Settings**

### Must cache an element value

- Changes with each interval change when new orders signed; for each CRRT setting! intake will be fixed for version 1.0
- Changes with each interval change when new orders signed

### **Current Hemodynamics** Phenotype "Score"

- Range 0 (mild) 5 (fatal)
- Images update accordingly

### **Current Metabolic** Phenotype "Score"

- Range 0 (mild) 5 (fatal)
- Images update accordingly

### **Current Respiratory** Phenotype "Score"

**Current I/Os** 

- Range 0 (mild) 5 (fatal)
- Images update accordingly

## **Event Listeners**

### - When clicked will open each

**Buttons for CRRT Orders** 

modal with specific order buttons

### **Buttons for Sign Orders**

- When clicked will be handled in a way that time interval goes forward and new data are rendered

# Functions (incomplete)

# Init ()

### Render

- Calls sub-functions with each "interval"

### Add Score to Phenotypes on Interval

Remove Score to Phenotypes on Interval

- At each "interval," score for each phenotype will go up by ### amount

- Depending on CRRT Rx Settings, score for each phenotype will go DOWN by ###

### GameOver () { ...

amount

Outcome 1 = patient dies

### **Triggers for this function:**

- hemodynamicPhen >= 5
- metabolicPhen >5 respiratoryPhen >5

Outcome 2 = patient lives

### **Triggers for this function:**

- Time interval exceeds ###