**Adult Tachycardia With a Pulse-Unstable**

Roles: Patient (Billy), Nurse (Rimi), Rapid Response #1 (Mike) and #2 (Liz), Doctor (Alison), Charge nurse (Laura)

<table>
<thead>
<tr>
<th>Scripts</th>
<th>Monitor/VS</th>
<th>Graphics</th>
<th>Camera Focus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Call light ringing</td>
<td></td>
<td></td>
<td>Nurse and patient interaction</td>
</tr>
<tr>
<td>Patient- lying in bed, slight distress, saline lock</td>
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<tr>
<td>Nurse- “Mr. Bray. How can I help you?”</td>
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<tr>
<td>Patient- “I don’t feel right. My heart feels like (pause) it is about to (pause) jump out of (pause) my chest.”</td>
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<tr>
<td>Nurse- Counts a radial pulse. While applying the blood pressure cuff “How are you feeling? Any chest pain?”</td>
<td>BP 84/42</td>
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<td>Monitor</td>
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<tr>
<td>Patient- “A little”</td>
<td>SaO2 90%</td>
<td></td>
<td>Nurse and patient interaction</td>
</tr>
<tr>
<td>Nurse- (While applying the portable oxygen saturation probe) “Any shortness of breath?”</td>
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<tr>
<td>Patient- “Yes”</td>
<td></td>
<td></td>
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<tr>
<td>Nurse- “Lightheaded or dizzy?”</td>
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<td></td>
<td></td>
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<tr>
<td>Patient- “Yes.”</td>
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<tr>
<td>Nurse- (While applying a nasal cannula at 2 L/min the nurse talks into a Vocera device) “Call the rapid response team.”</td>
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</table>
A voice is heard to say- “Did you want to call the Rapid Response Team?”

Nurse: “Yes”

A voice is heard to say- “This is the rapid response team?”

Nurse- “This is Rimi, would you please come to room 2 to help me with a patient with a high heart rate?”

A voice is heard to say- “On our way.”

Nurse- (Talks into a Vocera device) “Call the charge nurse.”

A voice is heard to say- “Did you want to call the charge nurse?”

Nurse- “Yes”

A voice is heard to say- “This is the charge nurse.”

Nurse- “Hi, this is Rimi, would you please come to room 2 to help me with a patient with a high heart rate?”

A voice is heard to say- “Be right there.”

Nurse- retakes the BP

BP 86/44

SaO2 90%

Monitor

Rapid response team enters the room: “I am Liz and this is Mike with the rapid response team. How can we help?”

Nurse- “I am Rimi, the nurse caring for Jean Bray. He is 2 days post-op following a left knee replacement. He has been stable; last Hemoglobin was 8.4 grams and was due to be discharged later today. No cardiac history that I am aware of. I am concerned that
his heart rate has increased from 88 beats per minute this morning to 160 beats per minute just a few minutes ago. He is symptomatic with a blood pressure drop from 130/70 to 84/42, his oxygen saturation has dropped from 94% to 88% which improved to 90% after I applied 2 L/min nasal cannula. He reports feeling chest discomfort, dizziness, and shortness of breath.”

Charge nurse arrives.

Rapid response #1- looks at the charge nurse and says “Please get your crash cart and page Dr. Ingram to the room.”

Rapid response #1- Increases the nasal cannula to 4 L/min. “Increased oxygen to 4 L/min.”

Rapid Response #2- looks at the patient and says “Hi Mr. Bray, my name is Liz and we are going to help you feel better. I am going to take your blood pressure again.” Pushes the blood pressure start button.

Rapid Response #2- “Please page Dr. Ingram to the room. Place him on the monitor.”

Nurse- Applies EKG

Rapid response #2- Looks at the monitor “SVT, rate of 170.” Prepare midazolam (my-DAYZ-oh-lam) 2.5 mg IV. Place the defibrillator pads on to prepare for synchronized cardioversion.”

Dr. Ingram enters the room

Rapid Response #2-“Dr. Ingram, this is Jean Bray. He is 1 day post-op following a left knee replacement. He has been stable; last Hemoglobin was 8.4 grams. No cardiac history that I am aware of.

Supraventricular tachycardia (SVT) rate 160, RR 20
BP 84/42
SaO2 90%
I am concerned that his heart rate has increased from 88 beats per minute this morning to 160 beats per minute just a few minutes ago. He is unstable with a blood pressure drop from 130/70 to 84/42, his oxygen saturation has dropped from 94% to 88% which improved to 90% after I applied 2 L/min nasal cannula. He reports feeling chest discomfort, dizziness, and shortness of breath. We are prepared for synchronized cardioversion and have midazolam 2.5 mg ready to administer.”

Doctor- “Proceed”

Rapid response #2- “Administer midazolam 2.5 mg. Synchronize the defibrillator and charge to 50 joules.”

Nurse- Cleans off the saline port, flushes, administers the midazolam, flushes. “Midazolam 2.5 mg IV administered.”

Rapid Response #1- Defibrillator is synchronized and charged to 50 joules.”

Doctor- “Mr. Bray- can you hear me?”

Patient- No response.

Rapid response #2- “Cardiovert with 50 joules.”

Rapid response #1- “I’m clear. You’re clear. We’re all clear.” Pushes defibrillator button.

Nurse- Pushes the blood pressure start button and says “SVT, rate 170. BP 86/50, oxygen saturation 93% on 4 L/min. Mr. Bray, can you hear me?”

Patient-No response

Rapid response #2- “Synchronize the defibrillator and charge to 100 joules.”

BP 80/40

SaO2 92%
Rapid Response #1 - *Defibrillator is synchronized and charged to 100 joules.*

Doctor - “*Mr. Bray- can you hear me?*”

Patient - No response.

Rapid response #2 - “*Cardiovert with 100 joules.*”

Rapid Response #1 - “*I’m clear. You’re clear. We’re all clear.*”
Pushes defibrillator button.

Nurse - Pushes the blood pressure start button and says “*Sinus tachycardia, rate of 114. BP 98/60, oxygen saturation 95% on 4 L/min. Mr. Bray, can you hear me?*”

Patient - Moaning “*What happened?*”

Doctor - “*Mr. Bray, your heart was beating too fast and your body didn’t like it so we had to shock your heart. Your heart is back to a normal rate now and your blood pressure looks much better. How do you feel?*”

Patient - “*My chest burns.*”

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<tr>
<th>Rapid Response #1 - <em>Defibrillator is synchronized and charged to 100 joules.</em></th>
<th>Synchronized cardioversion &amp; Evaluate</th>
<th>Graphic</th>
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<td>Doctor - “<em>Mr. Bray- can you hear me?</em>”</td>
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<td>Patient - No response.</td>
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<td>Doctor, Rapid response team, and patient</td>
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**Adult Tachycardia With a Pulse-Symptomatic**

- IV site
- Consider sedation
- Synchronized cardioversion