Scenario A (Cogaids)

Megacode video 7
Timing: 7:50
Conditions: Pneumonia, shortness of air
Meds: Atenolel 50mg
Other: History of cardiac problems
J. Stino, 65 yrs, 64.1 kg

Conditions: Pneumonia, shortness of air

Meds: Atenolol 50mg

Other: History of cardiac problems
Bradycardia

**SIGNS**

HAS PULSE but Hypotensive

NO Pulse? → PEA

**TREAT**

FiO₂—↑100%; Ventilation & Oxygenation—ok?; Anesthetics—↓ or off?; Atropine—0.5...

**SECONDARY**

Arterial line; Labs—ABG, hemoglobin, electrolytes; Ischemia?—consider...

**Code Cart**

**J. Stino, 65 yrs, 64.1 kg**

**Conditions**

Pneumonia, shortness of air

**Meds**

Atenolel 50mg

**Other**

History of cardiac problems
Bradycardia

SIGNS

HAS PULSE but Hypotensive

NO Pulse? → PEA

TREAT

FiO2—↑100%; Ventilation & Oxygenation—ok?; Anesthetics—↓ or off?; Atropine—0.5...

SECONDARY

Arterial line; Labs—ABG, hemoglobin, electrolytes; Ischemia?—consider...

Code Cart

J. Stino, 65 yrs, 64.1 kg

Conditions

Pneumonia, shortness of air

Meds

Atenolel 50mg

Other

History of cardiac problems
TREAT

☐ Support breathing
   Bag valve mask & O2 tank

☐ FiO2—↑100%

☐ Ventilation & Oxygenation?

☐ Anesthetics—consider ↓ or OFF

☐ Atropine—0.5 to 1.0mg IV

☐ Transcutaneous pacing—consider
   OR

☐ Infusions—consider

SECONDARY

Arterial line; Labs—ABG, hemoglobin, electrolytes; Ischemia?—consider...
Bradycardia

TREAT

- Support breathing
  Bag valve mask & O2 tank
- FiO2—↑100%
- Ventilation & Oxygenation?
- Anesthetics—consider ↓ or OFF
- Atropine—0.5 to 1.0mg IV
- Transcutaneous pacing—consider
  OR
- Infusions—consider

SECONDARY

Arterial line; Labs—ABG, hemoglobin, electrolytes; Ischemia?—consider...

J. Stino, 65 yrs, 64.1 kg

Conditions
Pneumonia, shortness of air

Meds
Atenolel 50mg

Other
History of cardiac problems
**TREAT**

- Support breathing
- FiO2—↑100%
- Ventilation & Oxygenation?
- Anesthetics—consider ↓ or OFF

**Atropine**—0.5 to 1.0mg IV
May repeat up to 3mg. Consider infusions below

**Transcutaneous pacing**—consider  
OR

**Infusions**—consider

**SECONDARY**  
Arterial line; Labs—ABG, hemoglobin, electrolytes; Ischemia?—consider...
**SIGNS**

HAS PULSE but hypotensive

**TREAT**

- Support breathing
- FiO₂ — ↑100%
- Ventilation & Oxygenation?
- Anesthetics — consider ↓ or OFF

- Atropine — 0.5 to 1.0mg IV
  May repeat up to 3mg. Consider infusions below

- Transcutaneous pacing — consider
  OR
- Infusions — consider

**SECONDARY**

Arterial line; Labs — ABG, hemoglobin, electrolytes; Ischemia? — consider...
**Bradyarrhythmia**

**Signs**
- HAS PULSE but hypotensive

**Treat**
- Support breathing
- FiO2 → 100%
- Ventilation & Oxygenation?
- Anesthetics — consider ↓ or OFF
- Atropine — 0.5 to 1.0 mg IV

-or-
- **Transcutaneous pacing** — consider
  - Set rate to 80+ bpm; Increase current until capture achieved; Confirm patient has pulse with capture

-or-
- **Infusions** — consider
  - Dopamine: 2 to 20µg/kg/min; Epinephrine: 2 to 10µg/min

**Secondary**
- Arterial line; Labs — ABG, hemoglobin, electrolytes; Ischemia? — consider...

**J. Stino, 65 yrs, 64.1 kg**

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolol 50mg

**Other**
- History of cardiac problems
**Bradycardia**

**TREAT**

- Support breathing
- FiO₂ → 100%
- Ventilation & Oxygenation?
- Anesthetics — consider ↓ or OFF
- Atropine — 0.5 to 1.0 mg IV

**Transcutaneous pacing** — consider

Set rate to 80+ bpm; Increase current until capture achieved; Confirm patient has pulse with capture

**Infusions** — consider

- Dopamine: 2 to 20 μg/kg/min
- Epinephrine: 2 to 10 μg/min

**SECONDARY**

Arterial line; Labs — ABG, hemoglobin, electrolytes; Ischemia? — consider...

**CONSIDER Asystole**
**Bradycardia**

**Signs**
- HAS PULSE but hypotensive

**Treat**
- Support breathing
- FiO₂ → 100%
- Ventilation & Oxygenation?
- Anesthetics → consider ↓ or OFF
- Atropine → 0.5 to 1.0 mg IV

- **Transcutaneous pacing** — consider
  - Set rate to 80+ bpm; Increase current until capture achieved; Confirm patient has pulse with capture

  OR

- **Infusions** — consider
  - Dopamine: 2 to 20 µg/kg/min; Epinephrine: 2 to 10 µg/min

**Secondary**
- Arterial line; Labs—ABG, hemoglobin, electrolytes; Ischemia?—consider...

**Consider** Asystole

**J. Stino, 65 yrs, 64.1 kg**

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolel 50mg

**Other**
- History of cardiac problems
CPR

**Asystole**

**SIGNs**

Flat Line, No Pulse

**CPR**

- ≥100 cmprs/s/min, ≥2” deep, 8–10 breaths/min
- ↓ breaks in CPR, Allow complete chest recoil
- Rotate personnel compressors q2 min
- ETCO2 > 10mmHg? / Arterial line diastolic > 20mmHg?

**IMMEDIATE**

Volatile—OFF; O2—100%; Ventilation—10 breaths/min?; Consider: Local anesthetic...

**TREAT**

Epinephrine—1mg IV push q 3–5 min

**H&T’s**

Hypovolemia, Hypoxia, Tension pneumothorax...

**Code Cart**

**J. Stino, 65 yrs, 64.1 kg**

**Conditions**

Pneumonia, shortness of air

**Meds**

Atenolel 50mg

**Other**

History of cardiac problems
**Asystole**

**SIGNS**
Flat Line, No Pulse

**CPR**
- ≥100 cmprsns/min, ≥2” deep, 8-10 breaths/min
- ↓ breaks in CPR, Allow complete chest recoil
- Rotate personnel compressors q2 min
- ETCO2 > 10mmHg? Arterial line diastolic > 20mmHg?

**IMMEDIATE**
Volatile—OFF; O2—100%; Ventilation—10 breaths/min?
Consider: Local anesthetic...

**TREAT**
Epinephrine—1mg IV push q 3–5 min

**H&T’s**
Hypovolemia, Hypoxia, Tension pneumothorax...

**Code Cart**

**Conditions**
Pneumonia, shortness of air

**Meds**
Atenolel 50mg

**Other**
History of cardiac problems
 charismatic. Asystole

SIGNS
Flat Line, No Pulse

CPR
Resume CPR

IMMEDIATE
Volatile—OFF; O2—100%; Ventilation—10 breaths...

TREAT
Epinephrine—1mg IV push q 3–5 mins

H&T’s
Hypovolemia, Hypoxia, Tension pneumothorax, Thrombosis Coronary, Thrombosis Pulmonary...

J. Stino, 65 yrs, 64.1 kg

Conditions
Pneumonia, shortness of air

Meds
Atenolel 50mg

Other
History of cardiac problems
**SIGNS**
Flat Line, No Pulse

**IMMEDIATE**
Volatile—OFF; O2—100%; Ventilation—10 breaths...

**TREAT**

- **Epinephrine**—1mg IV push q 3–5 mins

**H&T’s**
Hypovolemia, Hypoxia, Tension pneumothorax, Thrombosis Coronary, Thrombosis Pulmonary...

**J. Stino, 65 yrs, 64.1 kg**

- **Conditions**
  Pneumonia, shortness of air

- **Meds**
  Atenolel 50mg

- **Other**
  History of cardiac problems
Volatile—OFF; O₂—100%; Ventilation—10 breaths...

**IMMEDIATE TREAT**

- **Epinephrine**—1mg IV push q 3–5 mins
  - 0:12 since 1\(^{st}\) dose
  - OK to re-dose in 3:48

**H&T’s**

- Hypovolemia, Hypoxia, Tension pneumothorax,
  - Thrombosis Coronary, Thrombosis Pulmonary...

**J. Stino, 65 yrs, 64.1 kg**

**Conditions**

- Pneumonia, shortness of air

**Meds**

- Atenolel 50mg

**Other**

- History of cardiac problems
**J. Stino, 65 yrs, 64.1 kg**

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolol 50mg

**Other**
- History of cardiac problems

**TREAT**

- **Epinephrine**—1mg IV push q 3-5 mins
- **0:24 since 1st dose**
- OK to re-dose in 3:36

**H&T’s**
- Hypovolemia, Hypoxia, Tension pneumothorax, Thrombosis Coronary, Thrombosis Pulmonary...
**J. Stino, 65 yrs, 64.1 kg**

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolel 50mg

**Other**
- History of cardiac problems

**IMMEDIATE**
- Volatile—OFF; O₂—100%; Ventilation—10 breaths...

**TREAT**
- **Epinephrine**—1mg IV push q 3–5 mins
  - 0:36 since 1ˢᵗ dose
  - OK to re-dose in 3:24

**H&T’s**
- Hypovolemia, Hypoxia, Tension pneumothorax, Thrombosis Coronary, Thrombosis Pulmonary...
J. Stino, 65 yrs, 64.1 kg

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolel 50mg

**Other**
- History of cardiac problems

**H&T’s**
- Hypovolemia, Hypoxia, Tension pneumothorax, Thrombosis Coronary, Thrombosis Pulmonary...

**CONSIDER VFib**

**TREAT**

- **Epinephrine**—1mg IV push q 3–5 mins
  - 0:48 since 1st dose
  - OK to re-dose in 3:12

**IMMEDIATE**
- Volatile—OFF; O2—100%; Ventilation—10 breaths...

**CPR**
- Resume CPR

**SIGNS**
- Flat Line, No Pulse

**Services**

**Help**

You
- Team Lead

Larry
- Pharmacist

Chelsea
- ICU Nurse

Dannielle
- RT
J. Stino, 65 yrs, 64.1 kg

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolel 50mg

**Other**
- History of cardiac problems

**IMMEDIATE**
- Volatile—OFF; O2—100%; Ventilation—10 breaths...

**TREAT**
- **Epinephrine**—1mg IV push q 3–5 mins
  - 1:00 since 1st dose
  - OK to re-dose in 3:00

**H&T’s**
- Hypovolemia, Hypoxia, Tension pneumothorax, Thrombosis Coronary, Thrombosis Pulmonary...

**CONSIDER VFib**
J. Stino, 65 yrs, 64.1 kg

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolel 50mg

**Other**
- History of cardiac problems

**H&T’s**
- Hypovolemia, Hypoxia, Tension pneumothorax, Thrombosis Coronary, Thrombosis Pulmonary...

**TREAT**
- **Epinephrine**—1mg IV push q 3-5 mins
  - 1:01 since 1st dose
  - OK to re-dose in 2:59

**IMMEDIATE**
- Volatile—OFF; O2—100%; Ventilation—10 breaths...

**RESUME CPR**
- IMMEDIATE TREAT
- CPR
- Flat Line, No Pulse

**SIGNS**
- You
- Larry
- Chelsea
- Dannielle

**Services**
- Help

**CONSIDER VFib**
Epinephrine—1mg IV push q 3–5 mins
1:02 since 1st dose
OK to re-dose in 2:58

H&T’s
Hypovolemia, Hypoxia, Tension pneumothorax,
Thrombosis Coronary, Thrombosis Pulmonary...

CONSIDER VFib

J. Stino, 65 yrs, 64.1 kg

Conditions
Pneumonia, shortness of air

Meds
Atenolel 50mg

Other
History of cardiac problems
J. Stino, 65 yrs, 64.1 kg

**Services**

- You (Team Lead)
- Larry (Pharmacist)
- Chelsea (ICU Nurse)
- Dannielle (RT)

**Conditions**

- Pneumonia, shortness of air

**Meds**

- Atenolel 50mg

**H&T’s**

- Hypovolemia, Hypoxia, Tension pneumothorax, Thrombosis Coronary, Thrombosis Pulmonary...

**CONSIDER VFib**

**TREAT**

- Epinephrine—1mg IV push q 3–5 mins
  - 1:03 since 1st dose
  - OK to re-dose in 2:57

**IMMEDIATE**

- Volatile—OFF; O2—100%; Ventilation—10 breaths...
**VTach & VFib**

**CHECK**
In the OR: Volatile—OFF, O2—100%...

**TREAT**
FiO2—↑100%; Ventilation & Oxygenation—ok?; Anesthetics—↓ or off?; Atropine—0.5...

**CONSIDER**
Antiarrhythmics; HypoMg or Torsades...

**SIGNS**
- VTach
- VFib

- Defibrillator
- ≥100 comprsn/min
- ≥2” deep
- \( \text{ETCO}_2 > 10\text{mmHg?} \) Arterial line diastolic
- > 20 mmHg?
- \( \downarrow \) breaks in CPR; allow complete chest recoil
- Rotate personnel compressors q2 min

**J. Stino, 65 yrs, 64.1 kg**

**Conditions**
Pneumonia, shortness of air

**Meds**
Atenolel 50mg

**Other**
History of cardiac problems
In the OR: Volatile—OFF, O₂—100%...

**TREAT**
- FiO₂—↑100%; Ventilation & Oxygenation—ok?; Anesthetics—↓ or off?; Atropine—0.5...

**CHECK**
- In the OR: Volatile—OFF, O₂—100%...

**CONSIDER**
- Antiarrhythmics; HypoMg or Torsades...

**J. Stino, 65 yrs, 64.1 kg**
- **Conditions**
  - Pneumonia, shortness of air
- **Meds**
  - Atenolel 50mg
- **Other**
  - History of cardiac problems
**TREAT**

- [ ] Defibrillate — 200 Joules (biphasic)
- [ ] CPR — RESUME IMMEDIATELY
- [ ] Epinephrine — 1 mg IV push q 3-5 min

**CHECK**

In the OR: Volatile—OFF, O2 — 100%; Ventilation—OK?. Always Check: IV...

**CONSIDER**

Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...

**J. Stino, 65 yrs, 64.1 kg**

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolel 50mg

**Other**
- History of cardiac problems
CONSIDER

Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...

CHECK

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

TREAT

☐ Defibrillate — 200 Joules (biphasic)

☐ CPR — RESUME IMMEDIATELY

☐ Epinephrine — 1 mg IV push q 3–5 min

DEFIB → CPR → MEDS

J. Stino, 65 yrs, 64.1 kg

Conditions  Pneumonia, shortness of air

Meds  Atenolel 50mg

Other  History of cardiac problems
CONSIDER

Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...

TREAT

☑ Defibrillate—200 Joules (biphasic)

☐ CPR — RESUME IMMEDIATELY

☐ Epinephrine—1 mg IV push q 3-5 min

DEFIB → CPR → MEDS

CHECK

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

J. Stino, 65 yrs, 64.1 kg

Conditions

Pneumonia, shortness of air

Meds

Atenolel 50mg

Other

History of cardiac problems
VTach & VFib

SIGNS
- VTach
- VFib, CPR ≥ 100...

TREAT
- ☑ Defibrillate — 200 Joules (biphasic)
- ☐ CPR — RESUME IMMEDIATELY
- ☐ Epinephrine — 1 mg IV push q 3–5 min
- ★ DEFIB → CPR → MEDS

CHECK
- In the OR: Volatile — OFF, O2 — 100%; Ventilation — OK? Always Check: IV...

CONSIDER
- Antiarrhythmics; HypoMg or Torsades? → MgSO4 2 g IV; HyperK?...

J. Stino, 65 yrs, 64.1 kg

Conditions
- Pneumonia, shortness of air

Meds
- Atenolel 50mg

Other
- History of cardiac problems
**J. Stino, 65 yrs, 64.1 kg**

**Conditions**
Pneumonia, shortness of air

**Meds**
Atenolel 50mg

**Other**
History of cardiac problems

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**TREAT**

- Defibrillate—200 Joules (biphasic)
- CPR—RESUME IMMEDIATELY

- **Epinephrine** —1 mg IV push 3–5 min
  
  **3:00 since 1st dose**
  OK to re-dose in 1:00

- DEFIB→CPR→MEDS

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**CHECK**

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

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**CONSIDER**

- Antiarrhythmics; HypoMg or Torsades?→MgSO4 2g IV; HyperK?...

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**Services**

- **You**
  Team Lead

- **Larry**
  Pharmacist

- **Chelsea**
  ICU Nurse

- **Dannielle**
  RT
J. Stino, 65 yrs, 64.1 kg

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolel 50mg

**Other**
- History of cardiac problems

**TREAT**
- **☑ Defibrillate** — 200 Joules (biphasic)
- **☑ CPR** — RESUME IMMEDIATELY

**Epinephrine** — 1 mg IV push 3–5 min

**3:03 since 1st dose**
- OK to re-dose in 0:57

**DEFIB → CPR → MEDS**

**CHECK**
- In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

**CONSIDER**
- Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...
**TREAT**

- Defibrillate—200 Joules (biphasic)
- CPR—RESUME IMMEDIATELY

**Epinephrine** —1 mg IV push 3–5 min

3:06 since 1st dose
OK to re-dose in 0:54

**CHECK**

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

**CONSIDER**

Antiarrhythmics; HypoMg or Torsades?→MgSO4 2g IV; HyperK?...

**J. Stino, 65 yrs, 64.1 kg**

**Conditions**

Pneumonia, shortness of air

**Meds**

Atenolel 50mg

**Other**

History of cardiac problems
J. Stino, 65 yrs, 64.1 kg

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolel 50mg

**Other**
- History of cardiac problems

**TREAT**
- ☑ Defibrillate—200 Joules (biphasic)
- ☑ CPR—RESUME IMMEDIATELY

**☐ Epinephrine** —1 mg IV push 3–5 min

3:09 since 1st dose
OK to re-dose in 0:51

DEFIB → CPR → MEDS

**CHECK**
In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

**CONSIDER**
- Antiarrhythmics; HypoMg or Torsades?→MgSO4 2g IV; HyperK?...
**TREAT**

- Defibrillate—200 Joules (biphasic)
- CPR—RESUME IMMEDIATELY

☐ Epinephrine — 1 mg IV push 3–5 min

- 3:12 since 1st dose

☑ Defib → CPR → Medications

**CHECK**

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always check: IV...

**CONSIDER**

- Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...

**Conditions**

- Pneumonia, shortness of air

**Meds**

- Atenolel 50mg

**Other**

- History of cardiac problems
**J. Stino, 65 yrs, 64.1 kg**

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolel 50mg

**Other**
- History of cardiac problems

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### VTach & VFib

**SIGNS**
- VTach
- VFib, CPR: ≥100...

### TREAT

- Defibrillate — 200 Joules (biphasic)
- CPR — RESUME IMMEDIATELY
- Defibrillate

- Epinephrine — 1 mg IV push 3–5 min
  
  **3:15 since 1st dose**
  
  OK to re-dose in 0:45

- DEFIB → CPR → MEDS

### CHECK

- In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

### CONSIDER

- Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...
**TREAT**

- Defibrillate — 200 Joules (biphasic)
- CPR — RESUME IMMEDIATELY

- **Epinephrine** — 1 mg IV push 3–5 min

**3:18 since 1st dose**

OK to re-dose in 0:42

DEFIB → CPR → MEDS

**CHECK**

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

**CONSIDER**

Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...

**J. Stino, 65 yrs, 64.1 kg**

- **Conditions**
  - Pneumonia, shortness of air

- **Meds**
  - Atenolel 50mg

- **Other**
  - History of cardiac problems
J. Stino, 65 yrs, 64.1 kg

**Conditions**
- Pneumonia, shortness of air
- History of cardiac problems

**Meds**
- Atenolel 50mg

**CHECK**
- In the OR: Volatile—OFF, O2—100%; Ventilation—OK? Always Check: IV...

**CONSIDER**
- Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...

**TREAT**
- ☑ Defibrillate—200 Joules (biphasic)
- ☑ CPR—RESUME IMMEDIATELY
- ☐ Epinephrine —1 mg IV push 3–5 min

3:21 since 1st dose
OK to re-dose in 0:39

DEFIB → CPR → MEDS

**DEFIB → CPR → MEDS**

**CHECK**
- In the OR: Volatile—OFF, O2—100%; Ventilation—OK? Always Check: IV...

**CONSIDER**
- Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...
**J. Stino, 65 yrs, 64.1 kg**

**Conditions**  
Pneumonia, shortness of air

**Meds**  
Atenolel 50mg

**Other**  
History of cardiac problems

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**TREAT**

- Defibrillate—200 Joules (biphasic)
- CPR—RESUME IMMEDIATELY

- **Epinephrine** —1 mg IV push 3-5 min
  
  3:24 since 1st dose  
  OK to re-dose in 0:36

- DEFIB→CPR→MEDS

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**CHECK**

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

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**CONSIDER**

Antiarrhythmics; HypoMg or Torsades?→MgSO4 2g IV; HyperK?...
**TREAT**

- Defibrillate—200 Joules (biphasic)
- CPR—RESUME IMMEDIATELY

- Epinephrine—1 mg IV push 3–5 min
  
  **3:27 since 1st dose**
  OK to re-dose in 0:33

**CHECK**

In the OR: Volatile—OFF, O₂—100%; Ventilation—OK?. Always Check: IV...

**CONSIDER**

Antiarrhythmics; HypoMg or Torsades?→MgSO₄ 2g IV; HyperK?...
J. Stino, 65 yrs, 64.1 kg

Conditions
- Pneumonia, shortness of air

Meds
- Atenolel 50mg

Other
- History of cardiac problems

**VTach & VFib**

**TREAT**
- Defibrillate—200 Joules (biphasic)
- CPR—RESUME IMMEDIATELY

- Epinephrine —1 mg IV push 3–5 min
  - 3:30 since 1st dose
  - OK to re-dose in 0:30

**CHECK**
- In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

**CONSIDER**
- Antiarrhythmics; HypoMg or Torsades?→MgSO4 2g IV; HyperK?...

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...
J. Stino, 65 yrs, 64.1 kg

Conditions
- Pneumonia, shortness of air

Meds
- Atenolel 50mg

Other
- History of cardiac problems

VTach & VFib
- VTach
- VFib, CPR: ≥100...

TREAT
- Defibrillate—200 Joules (biphasic)
- CPR—RESUME IMMEDIATELY

☐ Epinephrine — 1 mg IV push 3–5 min
   3:33 since 1st dose
   OK to re-dose in 0:27

☑ Defib → CPR → Meds

CHECK
- In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

CONSIDER
- Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...
VTach & VFib

SIGNS

VTach

VFib, CPR: ≥ 100...

TREAT

- Defibrillate — 200 Joules (biphasic)
- CPR — RESUME IMMEDIATELY

☐ Epinephrine — 1 mg IV push 3–5 min

3:36 since 1st dose
OK to re-dose in 0:24

DEFIB → CPR → MEDS

CHECK

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

CONSIDER

Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...

J. Stino, 65 yrs, 64.1 kg

Conditions
Pneumonia, shortness of air

Meds
Atenolel 50mg

Other
History of cardiac problems
**J. Stino, 65 yrs, 64.1 kg**

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolel 50mg

**Other**
- History of cardiac problems

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**VTach & VFib**

**SIGNS**
- VTach
- VFib, CPR: ≥100...

**TREAT**
- **☑ Defibrillate**—200 Joules (biphasic)
- **☑ CPR**—RESUME IMMEDIATELY

**Epinephrine**
- 1 mg IV push 3–5 min

**3:39 since 1st dose**
- OK to re-dose in 0:21

**☑ DEFIB→CPR→MEDS**

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**CHECK**
- In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

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**CONSIDER**
- Antiarrhythmics; HypoMg or Torsades?→MgSO4 2g IV; HyperK?...
**TREAT**

- Defibrillate — 200 Joules (biphasic)
- CPR — RESUME IMMEDIATELY

**Epinephrine** — 1 mg IV push 3–5 min

3:42 since 1st dose
OK to re-dose in 0:18

DEFIB → CPR → MEDS

**CHECK**

In the OR: Volatile—OFF, O₂—100%; Ventilation—OK?. Always Check: IV...

**CONSIDER**

Antiarrhythmics; HypoMg or Torsades? → MgSO₄ 2g IV; HyperK?...

**Conditions**

Pneumonia, shortness of air

**Meds**

Atenolel 50mg

**Other**

History of cardiac problems
**VTach & VFib**

### TREAT
- **Defibrillate**—200 Joules (biphasic)
- **CPR**—RESUME IMMEDIATELY

**Epinephrine**—1 mg IV push 3–5 min

*3:45 since 1st dose*
OK to re-dose in 0:15

☑ **DEFIB → CPR → MEDS**

**CHECK**
In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

**CONSIDER**
Antiarrhythmics; HypoMg or Torsades?→MgSO4 2g IV; HyperK?...

**J. Stino, 65 yrs, 64.1 kg**

**Conditions**
Pneumonia, shortness of air

**Meds**
Atenolel 50mg

**Other**
History of cardiac problems
J. Stino, 65 yrs, 64.1 kg

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolol 50mg

**Other**
- History of cardiac problems

**Treat**
- Defibrillate—200 Joules (biphasic)
- CPR—RESUME IMMEDIATELY
- Epinephrine—1 mg IV push 3–5 min
  - **3:48 since 1st dose**
  - OK to re-dose in 0:12

**Check**
- In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

**Consider**
- Antiarrhythmics; HypoMg or Torsades?→MgSO4 2g IV; HyperK?...
**VTach & VFib**

**SIGNS**
- VTach
- VFib, CPR: ≥100...

**TREAT**
- Defibrillate—200 Joules (biphasic)
- CPR—RESUME IMMEDIATELY

- **Epinephrine** —1 mg IV push 3–5 min

  *3:51 since 1st dose*  
  OK to re-dose in 0:09

- DEFIB→CPR→MEDS

**CHECK**
- In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

**CONSIDER**
- Antiarrhythmics; HypoMg or Torsades?→MgSO4 2g IV; HyperK?...

**J. Stino, 65 yrs, 64.1 kg**

**Conditions**
- Pneumonia, shortness of air

**Meds**
- Atenolel 50mg

**Other**
- History of cardiac problems
**VTach & VFib**

**CONDITIONS**
- Pneumonia, shortness of air

**MEDS**
- Atenolel 50mg

**PNEUMONIA**

**TREAT**
- Defibrillate — 200 Joules (biphasic)
- CPR — RESUME IMMEDIATELY

**DEFIB → CPR → MEDS**

**CHECK**
- In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

**CONSIDER**
- Antiarrhythmics; HypoMg or Torsades? → MgSO4 2g IV; HyperK?...

**SERVICE PROVIDERS**
- Larry: Pharmacist
- Chelsea: ICU Nurse
- Dannielle: RT

**RELATED**
- History of cardiac problems

**OTHER**
- History of cardiac problems
VTach & VFib

SIGNS

VTach ~ VFib, CPR ≥ 100...

TREAT

- Defibrillate—200 Joules (biphasic)
- CPR—RESUME IMMEDIATELY
- Epinephrine—1 mg IV push q 3–5 min

DEFIB → CPR → MEDS

CHECK

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

CONSIDER

Antiarrhythmics; HypoMg or Torsades?→MgSO4 2g IV; HyperK?...

☐ VTach & VFib

☐ PEA

☐ Asys

☐ Services

☐ Help

J. Stino, 65 yrs, 64.1 kg

Conditions

- Pneumonia, shortness of air

Meds

- Atenolel 50mg

Other

- History of cardiac problems
VTach & VFib

TREAT

- Defibrillate—200 Joules (biphasic)
- CPR—RESUME IMMEDIATELY
- Epinephrine—1 mg IV push q 3–5 min

CHECK

In the OR: Volatile—OFF, O2—100%; Ventilation—OK?. Always Check: IV...

CONSIDER

Antiarrhythmics; HypoMg or Torsades?→MgSO4 2g IV; HyperK?...

J. Stino, 65 yrs, 64.1 kg

Conditions
- Pneumonia, shortness of air

Meds
- Atenolel 50mg

Other
- History of cardiac problems
CONSIDER

☐ Antiarrhythmics
   Amiodarone 300mg IV, Lidocaine 100mg IV

☐ HypoMg or Torsades? → MgSO4 2g IV
☐ HyperK? → Ca, insulin & glucose, NaHCO3

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Meds
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Other
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