Stanford Medical Checklist Study
Training (Cogaids) v4
This screen may contain a digital, dynamic cognitive aid. You may use it to answer questions during a scenario.

No interaction is required with this screen--the cognitive aid will automatically adapt to match the current medical scenario.
Malignant Hyperthermia

**TREAT**

- Anesthetic triggers—discontinue
- □ **↑ Fresh gas**—10 L/min
  - Do NOT change machine or circuit
- □ Hyperventilate—FiO2 100%, O2 high
- □ Dantrolene—2.5 mg/kg sterile
- □ Dantrolene—Rapidly administer until patient stable
- □ Na2CO3—1 to 2 mEq/kg

- Cool patient
- □ Hyperkalemia? CaCl2 1g IV
- □ Labs

**SECONDARY**

Patient—Monitor in ICU;
Dantrolene—1 mg/kg

**SIGNs**

- ↑ETCO₂, Tachycardia...

**DDX**

Light anesthesia, Hypo...

**T. Stark, 35 yrs, 102.1 kg**

**Conditions**

Cardiac Arrest, Shrapnel

**Meds**

Lithium Dioxide

**Other**

Palladium toxicity, alcoholism
Malignant Hyperthermia

TREAT

- Anesthetic triggers—discontinue
- ↑ Fresh gas—10 L/min
- TIVA
- Hyperventilate—FiO2 100%, O2 high
- Dantrolene—2.5 mg/kg sterile
- Dantrolene—Rapidly administer until patient stable
- Na2CO3—1 to 2 mEq/kg

Cool patient

Hyperkalemia? CaCl2 1g IV

Check blood gas for electrolyte abnormalities; CaCl2 1g, D50 1 Amp (25g Dextrose) + Reg. Insulin 10 units; (monitor glucose), or NaHCO3 1 Amp; No Ca channel blockers

Labs

SECONDARY

Patient—Monitor in ICU; Dantrolene—1 mg/kg

Conditions

Cardiac Arrest, Shrapnel

Meds

Lithium Dioxide

Other

Palladium toxicity, alcoholism
In some conditions, this display will be blank.
Now, this screen will display the software-based, dynamic cognitive aid.

Ready...?
Conditions: High blood pressure
Meds: Cumadin
Other: Prior cardiac arrest
Possible Crisis?

SIGNs
- Not breathing? No pulse?

Treat
- Begin compressions immediately.

Secondary
- Consider possible root causes.

Services

Call for Help?

S. Card, 67 yrs, 64.0 kg

- Conditions: High blood pressure
- Meds: Cumadin
- Other: Prior cardiac arrest
Possible Crisis?

**Signs**
- Not breathing? No pulse?

**Treat**
- Begin compressions immediately.

**Secondary**
- Consider possible root causes.

**Services**

**Help**

**S. Card, 67 yrs, 64.0 kg**
- **Conditions**: High blood pressure
- **Meds**: Cumadin
- **Other**: Prior cardiac arrest
Possible Crisis?

SIGNS

Not breathing? No pulse?

TREAT

Begin compressions immediately.

SECONDARY

Consider possible root causes.

Call for Help?

S. Card, 67 yrs, 64.0 kg

Conditions: High blood pressure

Meds: Cumadin

Other: Prior cardiac arrest
 Possible Crisis?  

**SIGNs**

Not breathing? No pulse?

**Treat**

Begin compressions immediately.

**Secondary**

Consider possible root causes.

**S. Card, 67 yrs, 64.0 kg**

**Conditions**
- High blood pressure

**Meds**
- Cumadin

**Other**
- Prior cardiac arrest
Call for Help?

Not breathing? No pulse?

Begin compressions immediately.

Consider possible root causes.

- Possible Crisis?
- PEA
- VT/VF

Signs

- High blood pressure
- Cumadin
- Prior cardiac arrest
☐ No pulse

**SIGNS**
Flat Line, No Pulse

**CPR**
- Start chest compressions (mid sternum)
- Allow for complete chest recoil
- Check rhythm

ETCO2 > 10mmHg? | Arterial line diastolic > 20mmHg? [ ]

**Code Blue**

**S. Card, 67 yrs, 64.0 kg**

**Conditions**
High blood pressure

**Meds**
Cumadin

**Other**
Prior cardiac arrest
CPR

Start chest compressions (mid sternum)

Allow for complete chest recoil

Check rhythm

ETCO2 > 10mmHg?  Arterial line diastolic > 20mmHg?

Code Blue

SIGNS

Flat Line, No Pulse

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Meds  Cumadin

Other  Prior cardiac arrest
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- Check rhythm
- ETCO2 > 10mmHg?
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CPR

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- Allow for complete chest recoil
- Check rhythm
- ETCO2 > 10mmHg? Arterial line diastolic > 20mmHg?

S. Card, 67 yrs, 64.0 kg

Conditions: High blood pressure
Meds: Cumadin
Other: Prior cardiac arrest
**CONSIDER**

DDX

**TREAT**

☐ VTach – Wide

☐ Defibrillate – # Joules

☐ CPR – RESUME IMMEDIATELY

DEFIB → CPR → MEDS

**CHECK**

In the OR: Volatile, O2

Ventilation—OK?. Always Check: IV...

**S. Card, 67 yrs, 64.0 kg**

**Conditions**

High blood pressure

**Meds**

Cumadin

**Other**

Prior cardiac arrest
**TREAT**

- Defibrillate – # Joules
- CPR — RESUME IMMEDIATELY

**CHECK**

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

**CONSIDER**

- DDX

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**S. Card, 67 yrs, 64.0 kg**

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**Meds**
- Cumadin

**Other**
- Prior cardiac arrest
□ VTach – Wide

□ Defibrillate — # Joules

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☑ DEFIB → CPR → MEDS

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CONSIDER

DDX

S. Card, 67 yrs, 64.0 kg

Conditions
High blood pressure

Meds
Cumadin

Other
Prior cardiac arrest
TREAT

☑ Defibrillate (biphasic machine)

☐ CPR — RESUME

DEFIB → CPR → MEDS

CHECK

In the OR: Volatile, O2
Ventilation—OK?. Always Check: IV...

CONSIDER

DDX

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**TREAT**
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**Other**
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