

THE GEORGE WASHINGTON UNIVERSITY HOSPITAL

EMPLOYEE NAME: _____

UNIT/DEPT: _____

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| HEC Approval: <u>S. Welch</u> |
| Approval Date: <u>4/2001</u> |
| Revision Date: 5/16 1/18 S Welch |
| Helpful Hints: YES |

Cardioversion/Defibrillation/Transcutaneous Pacing CBE

Reviewer's Initials

List 5 things to look for and avoid when placing pads or paddles

- Pacemakers / Mediports / Medication Patches / Piercings: jewelry / Powder / Products / Prison tattoos

Defibrillation:

- Identify rhythms requiring defibrillation
- Demonstrate preparation and paddle placement
Use quick look paddles
- Set joules (Biphasic 200 Joules)
- Demonstrate safe defibrillation with paddles (Look & Clear)

Cardioversion

- Identify rhythms requiring cardioversion
- Demonstrate preparation and paddle placement
- Demonstrate preparation of patient for cardioversion
[Sedate / Monitor: place ECG leads / Select Lead II / Select Energy / Select Synch]
- Set joules and synchronizes machine:

| Rhythm | Biphasic |
|------------------|-------------|
| SVT | 50-100 J |
| Aflutter | 50-100 J |
| VTach with Pulse | 100 – 200 J |
| Afib | 120 – 200 J |

- Demonstrate cardioversion with paddles (look & clear)
(holds down button until the machine fires on the R wave)
- Repeat Cardioversion: Increase Joules / Re-Select Synch]

External pads:

- Demonstrate external pad placement:
Seal well avoiding air pockets [causes skin burn]
 1. Anterior/posterior
 2. Sternum/apex
- Demonstrate pad connection to Zoll Universal Cable
- Demonstrate defibrillation with external pads
- Demonstrate cardioversion with external pads

Transcutaneous pacing:

- Identify rhythms requiring transcutaneous pacing
 - Attaches external pads & ECG leads / Select lead
 - Demonstrate transcutaneous pacing: increase mA until Ventricular capture [pacer spike followed by wide QRS complex & correlating pulse]
 - Add 10% to maintain capture
 - Check underlying rhythm with 4:1 button
 - Run rhythm strip and changes paper
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Internal paddles:

- Identify the location of internal paddles & connection to the universal cable
ICU 2 / ER Trauma Bay / 3 South / Operating Room
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Pediatric paddles:

- Demonstrate the use of pediatric paddles
[Defib = 2 J / kg Cardioversion = 1 J/kg]
Pediatric pads are located in the ED Pediatric Cart
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Demonstrate 30 Joule check of the Defibrillator: Q Shift

- Zoll = 30 Joule test
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Age Specific Considerations

Neonate (0-30 days):

- Defibrillate at 2 joules/kg (double dose and repeat x2 PRN)
- Cardioversion at 1 joule/kg
- Procedural sedation: medicate/titrate based on weight as per pediatric dosage handbook
- Access pediatric paddles by removing adult paddles on Zoll,
- Pediatric internal paddles located in ED

Infant 31 days-12 months):

- Same as Neonate

Child (13 months – 12 years):

- Same as Neonate

Adolescent (13-17 years):

- Procedural sedation: medicate/titrate based on weight as per pediatric dosage handbook

Adult (18-65 yrs):

- N/A

Geriatric (66+):

- Explain procedure in clear and understandable language
- Use appropriate visual and hearing aids as necessary while explaining procedure
- Reinforce explanation PRN
- Provide sedation PRN

Reviewer's Signature: _____

Date: _____