# G20. Defibrillation – Double Sequential

**Purpose**

To guide ECP when utilizing two Zoll X-Series monitors to perform double sequential external defibrillation.

**Indications**

- Refractory V-fib/pulseless V-tach after 3 traditional defibrillations at maximum joules

**Procedure**

1. Begin/continue high-quality CPR per local protocol.
2. Obtain second Zoll X-series monitor.  
   Note: other models of monitor have not been tested with double sequential defibrillation and may void the unit’s warranty.
3. Confirm that all interventions to address possible causes of cardiac arrest have been considered (H’s & T’s)
4. Prepare chest  
   a. Utilize A/P (anterior/posterior) pad placement for second set of Stat pads  
   b. DO NOT allow pads to touch or overlap  
   c. Poor adherence and/or air under the pads can lead to possibility of arcing and skin burns.
5. Position both monitors so that the same provider can reach both at the same time
6. Prepare monitors for delivery of shock approximately 15 seconds prior to anticipated break in CPR.
7. Select energy level. Press the ENERGY SELECT arrows up or down to select the maximum joules able to be delivered on each device. The selected level will be shown on the right of the screen in yellow.
8. Press CHARGE to confirm the energy level. An audible tone will be heard during both units charging. Once charged, the tone changes to a continuous charge ready tone.
9. At pulse & rhythm check, confirm that patient is in a refractory arrhythmia and continues to have no pulse
10. Confirm that all persons in attendance are clear of the patient.
11. Confirm that patient’s body is not in contact with metal objects or water.
12. Press and hold SHOCK button on both monitors simultaneously to deliver energy at the most synchronized time available.
13. Immediately resume CPR.

14. If the defibrillator is not discharged within 60 seconds, it will automatically disarm itself.

15. Repeat at every interval, continuing to perform high-quality CPR as indicated by patient’s response and rhythm.

16. If additional counter shocks are needed, repeat steps 6-12 of this procedure.

**TO DISARM:**

1. At any time while the unit is charging or charged, it may be disarmed one of two ways.

2. By pressing the DISARM soft key on the left side of the monitor or by changing the energy level of defibrillation.

3. Press the ENERGY SELECT arrows either up or down to disarm or change energy level.

4. To re-arm the device, the CHARGE button must be pressed again.