### Mechanical Compression Device (MCD)

**(For Adults Only)**

#### Airway

1. Defibrillate immediately if VT/VF
2. Set up BVM & connect to Oxygen/ETCO2
3. Provide cadence and count for EMT
4. Provide high quality 1-person BVM breaths every 10 compressions
5. Charge defibrillator at 16th breath

#### Chest Compressions

1. Shake and Shout (no pulse check)
2. Open airway and move to floor with adequate space
3. Start high quality chest compressions
4. Change compressor every 2 minutes (Limit changes/pulse checks to < 5 seconds)

#### Metronome, Defibrillator set-up

1. Activate metronome at 110 bpm
2. Cut shirt
3. Attach defibrillator pads
4. Can start set up of MCD if compressions aren’t compromised.

### Chest Compressions

1. Continuous chest compressions
2. Push hard (> 2 inches) and fast (110/min)
3. Continue using metronome to ensure proper rate
4. Change compressor every 2 minutes (Limit changes/pulse checks to < 5 seconds)

### Airway

1. Provide high quality 1-person BVM breaths every 10 compressions
2. Provide cadence and count for compressor
3. Charge defibrillator at 16th breath

### Pulse Check

1. Pulse Check
2. Prepare to set up MCD

### Finish Applying and Turn On MCD Device

1. Attach the second claw of the Mechanical Device to the Back Plate
2. Adjust the compression plunger to the correct depth
3. Turn on MCD Device
4. Apply neck strap

### Rhythm Check, Defibrillation

1. ETCO2 and Rhythm Check
2. If indicated (VT/VF), clear and defibrillate patient. If not indicated, dump charge

### Set up and Lay Out MCD within 2 minutes

1. Unpack Back Plate and Mechanical Device
2. If air-pressure controlled, attach SCBA
3. Place Mechanical Device on E2 side (EMT doing compressions)
4. Place Back Plate next to P1 (airway paramedic)

### Pulse Check, MCD application

1. Pulse Check
2. After shock applied (or decision not to shock), grasp patient’s shoulder and support head with E2 to lift the upper torso for paramedic to slide Back Plate underneath patient

### Pulse Check, MCD application

1. Pulse Check
2. After shock applied (or decision not to shock), grasp patient’s shoulder and support head with E1 to lift the upper torso for paramedic to slide Back Plate underneath patient

### Rhythm Check (round 1) <10 secs

1. Pulse Check
2. Prepare to start high quality compressions

### Rhythm Check (round 2) <10 secs

1. Pulse Check
2. Prepare to set up MCD

### Rhythm Check (round 3) <10 secs

1. Pulse Check
2. After shock applied (or decision not to shock), grasp patient’s shoulder and support head with E1 to lift the upper torso for paramedic to slide Back Plate underneath patient

### Rhythm Check, Defibrillation

1. ETCO2 and Rhythm Check
2. If indicated (VT/VF), clear and defibrillate patient. If not indicated, dump charge

### Rhythm Check (round 1) <10 secs

1. Pulse Check
2. Prepare to start high quality compressions

### Rhythm Check (round 2) <10 secs

1. Pulse Check
2. Prepare to set up MCD

### Rhythm Check (round 3) <10 secs

1. Pulse Check
2. After shock applied (or decision not to shock), assist E1 in applying and turning on MCD device
3. Mark plunger location with permanent marker

### Continue to set up MCD within 2 minutes

1. If not completed, finish setting up and laying out MCD
2. Attach the first claw of the Mechanical Device to the Back Plate

### Metronome, Defibrillator set-up

1. Activate metronome at 110 bpm
2. Cut shirt
3. Attach defibrillator pads
4. Can start set up of MCD if compressions aren’t compromised.

### Field Procedure FP19

**Effective April 2020**