

### INDICATIONS FOR USE

The **Dura-padz** Reusable Defibrillation Electrode is used in conjunction with **Dura-padz GEL**, and ZOLL Biphasic Defibrillators: AED Pro®, E Series®, R Series®, and M Series® (Biphasic Only) for ECG monitoring, defibrillation and cardioversion of adult patients only.

Device is intended for use by trained personnel only including Physicians, Nurses, Paramedics, Emergency Medical Technicians, Cardiovascular Laboratory Technicians, and First Responders.



### TEMPERATURES

OPERATING TEMPERATURE: 0 °C to 50 °C (32 °F to 122 °F)  
 SHORT TERM STORAGE TEMPERATURE: -30 °C to 65 °C (-22 °F to 149 °F)  
 LONG TERM STORAGE TEMPERATURE: 0 °C to 35 °C (32 °F to 95 °F)

### SERVICE LIFE

**Dura-padz** Reusable Defibrillation Electrode  
 Not recommended for more than 100 patient uses.

### SERVICE LIFE Dura-padz GEL

⊗ Single patient use only.

### PRECONNECTION

To prepare for emergency, keep **Dura-padz** reusable defibrillation electrode plugged into defibrillator at all times.

⚠ Do not open **Dura-padz GEL** pouch until ready for patient use.



### SKIN PREPARATION

1. Remove excess chest hair to maximize gel-to-skin contact. Clipping is recommended.
2. Ensure skin is clean and dry under electrode. Remove any debris, ointments, skin preps, etc. with water (and mild soap if needed). Wipe off moisture/diaphoresis with dry cloth.



⚠ Excessive hair can inhibit good coupling (contact), which can lead to the possibility of arcing and skin burns.

### ELECTRODE APPLICATION

**1** Remove both **Dura-padz** electrodes from protective polyurethane sleeve.

**2** Locate **Dura-padz GEL** pouch and peel open as shown.

⚠ Do not open pouch until ready to use.

**3** Open the pads like a book and place on flat surface. Remove yellow release liner only.

**4** Visually align **Dura-padz** electrode over center of gel pad and place on top. Press firmly to secure entire area. Repeat with second electrode.

⚠ Do not trap any air pockets between the electrode and gel.

**5** Grab the red tab and peel both the electrode and gel pad from the back release liner.

Apply to patient, then repeat with second electrode and gel pad set.

**6** Apply one edge of the pad securely to the patient. "Roll" the pad smoothly from that edge to the other. Do not trap any air pockets between the gel and the skin.

⚠ Poor adherence and/or air under electrodes can lead to the possibility of arcing and skin burns.

**6** Sternum: Apply electrode on upper right torso.

Apex: Apply so that top of electrode aligns with bottom of pectoral muscle on male patient. Place under breast on female patient. The lateral placement increases the likelihood that more heart musculature will be within the current pathway.

⚠ Avoid contact between nipple and gel area as it is more susceptible to burning.

## CLEANING

After each use, remove **Dura-padz GEL** by handling red tab and peeling away from **Dura-padz** electrode. Dispose of **Dura-padz GEL** per institution's protocol. Thoroughly clean **Dura-padz** reusable defibrillation electrode using a gauze pad or soft cloth, and one of the following cleaning agents: 90% isopropyl alcohol, 3% chlorine bleach (30ml / L water), or 2% glutaraldehyde solution. Ensure all residue left from either conductive gel or adhesive has been removed, and allow cleaning solution to dry before returning to storage. Build-up of gel or other contaminants on the metal surfaces can lead to corrosion, discoloration, and other forms of degradation.

Do not immerse device in water. Do not use ketones (MEK, acetone, etc.). Do not sterilize device.

## STORAGE

After cleaning, store **Dura-padz** electrodes in protective polyurethane sleeve provided by sliding electrodes into each of the outer pockets. Place at least one **Dura-padz GEL** unit into middle pocket for storage. Keeping the two components together will ensure product is ready for immediate use. Rest on top of defibrillator with electrode cable loosely coiled. Do not wrap cable around the electrode or sleeve, as strain may be placed on device. Product is recommended for storage inside appropriate ZOLL carrying case.

## INSPECTION / MAINTENANCE

Device must be regularly inspected, and maintained as needed to be ready for immediate use. Inspect the following items at the beginning of each shift:

**Dura-padz** electrode: Verify that electrodes, cables, and connector are free of cracks, frays, cuts, and exposed or broken wires. Ensure all surfaces are free of any contaminants (i.e. dirt, gel, adhesive), and clean if needed.

**Dura-padz GEL**: Ensure pouches are properly sealed and undamaged. Verify product has not exceeded indicated expiration date.

Remove item(s) from service if any of the above criteria are not met.

## USAGE LOG

Maintain record of each use by utilizing usage tally card attached to **Dura-padz** electrode cable. After each patient use, punch out the next available marker. Repeat until all available markers have been removed. Remove **Dura-padz** electrode from service after maximum of 100 uses.

## WARNINGS

1. Device is intended for use by trained personnel only including Physicians, Nurses, Paramedics, Emergency Medical Technicians, Cardiovascular Laboratory Technicians, and First Responders.
2. Not for use with ZOLL AED® Plus and/or any Public Access Defibrillators.
3. Use with ZOLL Biphasic Defibrillators only, Max Energy Setting: 200 Joules.
4. Do not store **Dura-padz** electrode with metal surfaces in contact with one another, or with other metal objects.
5. Do not fold **Dura-padz** electrode or **Dura-padz GEL** during storage or use, as it can result in damage leading to product failure, arcing, and/or skin burns.
6. Do not touch metal surfaces of **Dura-padz** electrode. Contact during use may result in electrical hazard. Contact during storage may result in corrosion or other contamination that can compromise performance or lead to degradation of device.
7. Do not apply **Dura-padz** electrode directly to patient, or attempt to use with defibrillator gels designed for use with paddles. Device must always be used in conjunction with **Dura-padz GEL**.
8. Do not use if **Dura-padz GEL** is dry. Dried out gel can lead to ineffective therapy, arcing, and skin burns.
9. To maximize patient benefit and minimize risk of burning, ensure **Dura-padz** electrodes are properly aligned and secured to **Dura-padz GEL** before applying to patient.
10. Always apply electrodes to flat areas of skin. If possible, avoid applying over birthmarks, nipples, and skin folds such as those underneath the breast or those visible on obese individuals.
11. Avoid electrode placement near the generator of an internal pacemaker. Defibrillation may cause pacemaker malfunction.
12. To ensure proper adhesion, do not reposition electrodes once adhered to patient. If repositioning is required, use a new set of **Dura-padz GEL**.
13. To avoid electrical shock, do not touch electrodes, patient, bed, or other objects in contact with patient during defibrillation.
14. After patient movement due to muscle contraction or patient repositioning, press electrodes firmly to skin to ensure good coupling is maintained.
15. Do not perform chest compressions directly over device, as this may cause damage to device resulting in ineffective therapy, arcing, and skin burns.
16. Do not discharge standard paddles on or through device. Doing so could lead to ineffective therapy, arcing, and skin burning.
17. **Dura-padz GEL** should be replaced after 8 hours of wear to maximize patient benefit.
18. Removal of **Dura-padz GEL** from patient may result in temporary reddening of skin surface at adhesion site.
19. Defibrillation can result in skin burns.