

Shortwave Diathermy Safe Distance

DJO Shortwave Diathermy equipment emits electromagnetic waves in the band centered on 27.12 MHz. The pulses are 20 to 400 μ sec in duration (pulse width) and are repeated with a frequency of 10 to 800 Hz (pulse frequency). Because the output is pulsed, the average output power levels can be very low (less than 1 W) and still produce effective treatment.

Based on the specifications of DJO Shortwave Diathermy equipment and electromagnetic interference (EMI) guidelines from the FDA and FCC, follow these Warnings;

- a) Short-wave diathermy devices (27.12 MHz) should be used only for treatments prescribed by a physician.
- b) No Pregnant person should receive short-wave diathermy treatment in any area of the body which is likely to result in exposure of the fetus.
- c) Persons with implanted electronics, Cardiac Pacemakers, leads or metal should not be treated with short wave diathermy, nor be closer than 3m (10 feet).
- d) Patients must remove all metal objects before treatment (e.g. Hearing aids, jewelry, piercings, etc.).
- e) Users are advised to maintain a radius of 3 m (10 feet) from an operating shortwave diathermy unit within which not to operate other electronic equipment.
- f) The operator should remain at least 1 m (3 feet) from the electrodes and 0.5 m (1.5 feet) from the cables during the treatment.
- g) Short duration excursions closer to the electrodes or cables are permitted, but only when necessary.
- h) It is unlikely that electronic devices in common use in a healthcare environment (e.g., electronic medical equipment, computers, monitors, handheld devices such as a Cell Phone, tablet, etc.) will experience electromagnetic interference outside or beyond the 3 m (10 feet) radius, however consult the EMC Tables of the equipment in the proximity of shortwave Diathermy equipment.
- i) No metal beds or chairs should be used during short-wave diathermy treatments. Other large metal objects should be kept at least 3 m (10 feet) from the electrodes and cables, when the short-wave device is in operation.

Together in Motion.