

# Radiology, Medical, Amusement Park & Aviation Procedures (quick reference guide)

## Radiology

Procedure	Patient is Pumper	Healthcare Professional is Pumper
<b>Dental X-rays</b>	Disconnect and leave outside the room.	Disconnect and leave outside the room.
<b>Ultra Sound</b>	<ol style="list-style-type: none"> <li>1. No need to disconnect.</li> <li>2. Transducer should not be pointed directly at a pump or site. If site is directly in range of transducer, site should be removed.</li> </ol>	<ol style="list-style-type: none"> <li>1. No need to disconnect.</li> <li>2. Transducer should not be pointed directly at pump or site.</li> </ol>
<b>Mammogram and Bone Density test</b>	<p>DO NOT expose pump to test.</p> <ol style="list-style-type: none"> <li>1. Disconnect pump prior to test and leave pump in locked dressing room.</li> <li>2. Infusion set can remain in place during the test.</li> </ol>	<ol style="list-style-type: none"> <li>1. No need to disconnect.</li> <li>2. Follow normal x-ray safety practices and proceed to the designated safe area while each test is being performed.</li> </ol>
<b>Body x-rays, Fluoroscopy (chest, neck, abdomen)</b>	<p>DO NOT expose pump to x-ray beam.</p> <ol style="list-style-type: none"> <li>1. Disconnect pump prior to treatment and leave pump in locked dressing room.</li> <li>2. If the infusion set doesn't interfere with the area being treated, the set can remain in place during radiation.</li> </ol>	<ol style="list-style-type: none"> <li>1. No need to disconnect.</li> <li>2. Follow normal x-ray safety practices and proceed to the designated safe area when each x-ray is taken.</li> </ol>
<b>Therapeutic Radiation/ Onc (cancer treatment by radiation)</b>	<p>DO NOT expose pump to radiation treatment.</p> <ol style="list-style-type: none"> <li>1. Disconnect pump prior to treatment and leave pump in locked dressing room.</li> <li>2. If the infusion set doesn't interfere with the area being treated, the set can remain in place during radiation.</li> </ol>	<ol style="list-style-type: none"> <li>1. No need to disconnect.</li> <li>2. Follow normal radio-protection practices and proceed to the designated safe area while the patient is undergoing treatment.</li> </ol>
<b>CT Scans and MRIs (Magnetic Resonance Imaging)</b>	<p>DO NOT bring the pump into the exam room at any time.</p> <ol style="list-style-type: none"> <li>1. Disconnect pump and metal needle infusion set prior to exam and leave in locked dressing room.</li> <li>2. Soft cannula infusion sets can remain in place.</li> <li>3. If the pump is accidentally allowed in the exam room, disconnect the pump immediately and contact Tandem Pump Support for instructions.</li> </ol>	<p>MRI: DO NOT bring the pump into the same room as the MRI machine at any time.</p> <p>If the pump is accidentally allowed in the exam room, disconnect the pump immediately and contact Tandem Pump Support for instructions.</p> <p>CT scan: No need to disconnect.</p> <p>Follow normal CT scan safety practices and proceed to the designated safe area when each scan is performed.</p>
<b>Electro-cautery surgery</b>	<p>Disconnect from pump during surgery.</p> <ol style="list-style-type: none"> <li>1. Disconnect prior to surgery and leave in locked dressing room.</li> <li>2. If the infusion set doesn't interfere with the area being treated, the set can remain in place during surgery.</li> </ol>	No need to disconnect.

### When in doubt, disconnect and leave pump in locked dressing room

Follow usual instructions for bolusing to cover any missed basal insulin if needed when you reconnect.

# Medical Procedures

Procedure	Patient is Pumper	Healthcare Professional is Pumper
<b>Pacemaker AICD</b>	1. Disconnect pump and leave outside room during insertion of device and reprogramming.	Follow normal safety practices and proceed to the designated safe area while each x-ray is taken and during programming.
	2. Infusion set can remain in place.	
<b>ECG</b>	No need to disconnect.	No need to disconnect.
<b>Cardiac Catheter</b>	Disconnect pump and leave outside room during procedure	Follow normal safety practices and proceed to the designated safe area while each x-ray is taken.
<b>Nuclear Stress Test</b>	Disconnect pump and leave outside room during scan. Can remain connected during injection of radioisotope.	Follow normal safety practices and proceed to the designated safe area while each x-ray is taken.
<b>Colonoscopy</b>	No need to disconnect.	No need to disconnect.
<b>Laser Surgery</b>	The pump and infusion set can be worn; however, some lasers can create interference and cause the pump to alarm.	The pump and infusion set can be worn; however, some lasers can create interference and cause the pump to alarm.
<b>General Anaesthesia</b>	Determination based on what medical equipment is being used in the procedure.	Determination based on what medical equipment is being used in the procedure.

# Amusement Parks & Aviation

<b>“Free-Fall” Rides</b>	Very powerful electromagnets are sometimes used on “free-fall” amusement park rides.  Insulin pumps should be removed and not taken on these “free-fall” types or rides.
<b>Roller-Coasters</b>	High gravity forces can be experienced when riding on some roller-coasters. It is recommended that you disconnect (NOT suspend) the pump while on roller-coaster rides.
<b>Aircraft without Cabin Pressurisation</b>	If flying in aircraft without cabin pressurization or flying in aircraft used for aerobatics or combat simulation pressurised or not), it is recommended that you disconnect (NOT suspend) the pump.
<b>Airport Security</b>	No need to disconnect unless going through a walk through x-ray.  <b>DO NOT expose to security checkpoint x-rays by putting through conveyor belt x-ray or walk through x-ray</b>

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