Safety Information for Cochlear Implant Recipients and their Carers

Your cochlear implant device is designed to be safe and effective. It consists of both

internal and external components. The implant is the internal surgically implanted

part, and the sound processor is the externally worn equipment. Most cochlear

implant recipients can lead a normal life but it is important that you follow the

manufacturer's safety instructions.

Manufacturers are responsible for providing safety information for all their products.

Device specific safety information is available from each of the manufacturers.

You will be provided with a user guide for your particular device. This contains

product information and essential safety information. It will inform you of any

precautions or warnings or special instructions that you need to follow. It is crucial

that you adhere to this advice to prevent harm to you and to avoid damage to your

implant / sound processor.

The following information is for devices manufactured by **MED-EL**.

Information is available on the website at:

https://www.medel.com/important-safety-information

MED-EL can be contacted at:

Telephone: 0330 123 5601

Email: clinicalsupport@medel.co.uk

(Full contact details can be found at: http://www.medel.com/uk/info/)

BCIG has compiled a list of frequently asked questions (FAQs) and have asked

MED-EL to provide device specific responses to these questions.

Cochlear Implant Safety – Frequently Asked Questions

General Questions

Question	Answer
What should I do if I develop an ear	Contact your Implant Centre and follow their
infection?	advice.
What should I do if I experience pain,	Contact your Implant Centre and follow their
swelling, redness or soreness in the region	advice.
of my implant?	
What should I do if I bump my head in the	Contact your Implant Centre and follow their
region of the cochlear implant?	advice.
Can you provide cremation advice?	The internal device does not require to be
	removed prior to cremation.

Medical and Dental Diagnostic X-Rays and Scans

Before having any type of x-ray or scan, please inform the Radiographer / Radiologist that you have a cochlear implant. You may be required to follow special instructions such as removing your sound processor to allow the scan to be carried out. MED-EL has provided the following advice:

Question	Answer
Can I have a diagnostic x-ray of any part of	
my body?	
Can I have other procedures involving x-rays	
e.g. dental OPT, mammogram, bone	
densitometry, CT scan?	
Can I have a diagnostic ultrasound scan?	
Can I have a Doppler ultrasound scan or	
echocardiogram?	
Can I have Nuclear Medicine scans involving	
radionuclides e.g. bone scans, PET, SPECT	
scans?	
Can I have an MRI Scan?	
Are there any other types of scans that could	
be harmful to me or my implant or require	
special precautions?	

Medical / Dental Treatments, Therapy and Surgical Procedures

Before having any medical or dental treatment, therapy or surgical procedure, please inform your Doctor, Dentist, Nurse or Therapist that you have a cochlear implant and if you have any other medical devices. Some surgical procedures and treatments that use electrical current, heat, vibration and radiation (especially in the region of the head, neck and shoulders) may be harmful to you and/or your implant. MED-EL has provided the following advice:

Question	Answer
Can I undergo a course of Radiotherapy and	
are there any special instructions that I need	
to follow.	
Warnings about Electrosurgical Instruments	
and Diathermy	
Warnings about Electromagnetic Radiation	
Warnings about Therapeutic Ultrasound,	
Microwaves and Diathermy	
Warnings about Neurostimulation	
Warnings about Electroconvulsive Therapy	
Are there any other medical, surgical or	
therapeutic treatments that could be harmful	
to me or my implant or require special	
precautions?	

Sports, Beauty and Leisure

Your cochlear implant (the inside part) is vulnerable to damage from significant bumps or falls and pressure. The implant can break or become dislodged from its original position. Surgery may be required to (re-)move the implant and replacement may or may not be possible. Cochlear implant recipients should not participate in activities where there is a high risk of head injury or sustained pressure to the implant site. For some activities head protection may be recommended and for others it may be advisable to remove the external equipment (sound processor and/or accessories). MED-EL has provided the following advice:

Question	Answer
Are there any sports or activities that are not	
permitted?	
Are there any sports or activities where head	

protection is recommended?
protection is recommended?
Can you provide advice on what type of head
protection is required?
Can I use electronic equipment for
electrolysis, tattoos, pain relief, muscle
toners, gym equipment etc?
Can I use hair clippers, electrical razor, hair
dryers, curling tongs, hair straighteners,
head lice comb etc. in the region of my
implant?
Can I have procedures carried out that use
sources of light (e.g. sun beds) or laser for
hair removal, tattoo removal etc.?
Warnings about Fairground Rides and
Amusement Parks
Warnings about Extreme Thrill Rides and
other activities with High G Forces
Warnings about Swimming, Snorkelling,
Shallow Diving, Canoeing and Sailing
Warnings about Scuba Diving
Are there any other sports, recreational
activities or cosmetic procedures that could
be harmful to me or my implant or require
special precautions?

At Home, Education and in the Workplace

You are very unlikely to come across any equipment in your home that has the potential to interact or cause damage to your implant. However, warnings are in place for those working with high powered electrical equipment and electromagnetic radiation in the workplace or in places of education. MED-EL has provided the following advice:

Question	Answer
Should I be concerned about static electricity	
at home, in the car, in the office, children's	
play equipment (ball pools etc.) and are any	
precautions required?	
Is there any standard household equipment	
that has potential to interact with my implant,	
processor or accessories and are any	

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Interactions and Interference

In everyday life it is very rare for other equipment to interact or interfere with your sound processor or wireless technology. If this happens you may experience intermittent or distorted sound. It will not damage your processor and the effect is only temporary. It will go away when you move away from the source of interference. Do not remain close to the source of interference for any longer than necessary (or switch-off your processor in advance). It is equally unlikely that your cochlear implant, sound processor or wireless technology will affect the functionality of nearby electrical equipment. If this happens, move away from the affected electronic device. You may be asked to switch-off your processor or wireless technology in restricted areas where radio frequency transmission is prohibited. MED-EL has provided the following advice:

Question	Answer
Are there any known sources of interference	
that may interact with my cochlear implant	
and accessories and are there any	

This document was prepared in November 2017 and is due for review in November 2019.

If you have any further questions regarding safety, please do not contact BCIG. Please contact your cochlear implant centre in the first instance.