INSTRUCTIONS FOR USE

IMPLANT REMOVAL

The surgeon must take the final decision on implant removal. It is recommended that an implant, used as an aid for healing should be removed once its services are over, particularly in younger and more active patients

POST OPERATIVE CARE

A patient must be made aware of the limitations of metallic implants and take precautions to avoid unnecessary stress to implant.

non-weight bearing device can be ported stresses of full weight bearing en there is an un-united tracture. No partial weight bearing or upporte expected to withstand the un or excessive muscular activ wh

Bone union is a mus and the tient must restr assist in healing.

VII <u>SECOND HAND IMPLANTS</u> Used implants, even if they app

Used implants, even in they appear un-damaged, may have internal and external Defects. It is possible that individual stress analysis each part fails to reveal the accumulated stress or the metals as a result of use within the body. This may be timately lead to implant failure.

Every implant must be discarded after use and should never be reused. It should be bent & then disposed of properly so that it becomes unfit for reuse. While disposing it of, it should be ensured that the discarded implant does not pose any threat to children, stray animals

VIII CAUTION

Implant components from one manufacture should not be used with those of another. Implants from each manufacture may have metal and design differences so that the use in conjunction with different devices may lead to inadequate fixation or corrosion of the implant due to generation of peizo currents.

PACKAGING DISPOSAL
The packaging material of this device if swallowed, may cause choking Hazards. Therefore, it should be disposed of in such a way that it is out of reach of children andstray animals.

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INSTRUCTIONS FOR USE

Details of various Symbols used in Labeling

2	Do not reuse
LOT	Batch code
	Date of manufacture WYYY-MM
[]i	Consult Instructions for Use
	Manufacturer
\square	Use by YYYY-MM
HON	Non-Sterile
REF	Catalogue number
$\overset{\sim}{\mathcal{T}}$	Keep Dry
类	Keep Away from Sunlight
\bigcirc	Do not use if package is damaged

INSTRUCTIONS FOR USE

GREENS SURGICALS (P) LTD.. Bone Plates and Bone Screws are supplied Non-Sterile.

Check the integrity of the packaging and labelling before opening the pack.

Remove the device from the pack before sterilization.

Implants are recommended to be sterilized, using steam autoclaving process regularly used in the hospitals and clinics.

validat The following two methods d and recommended by the company:

Method:	Steam Sterilization (Autoclavin	g) \
Temperature	121 Degree Centigrade	_
Exposure Time:	15 Minutes	

Qualified & specialized trained rgeons o should use this device.

STORAGE

Store in a dry place.

PRODUCT INFORMATION DISCLOSURE:

GREENS SURGICALS (P) LTD.. HAS EXERCISED REASONABLE CARE IN THE SELECTION OF MATERIALS AND MANUFACTURE OF THESE PRODUCTS. GREENS SURGICALS (P) LTD. EXCLUDES ALL WARRANTIES, WHETHER EXPRESSED OR MENCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. GREENS SURGICALS (P) LTD.. WILL NOT BE LIABLE FOR ANY INCIDENT OR CONSEQUENTIAL LOSS, DAMAGE OR EXPENSE, DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF THE DEVICES. GREENS SURGICALS (P) LTD.. WEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR ANY OTHER OR ADDITIONAL LIABILITY OR RESPONSIBILITY IN CONNECTION WITH THESE DEVICES. DEVICES.

INFORMATION

Should any information regarding the implants or their use be required, please contact your representative or distributor or contact the m anufacturers direct.

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INSTRUCTIONS FOR USE

EC REP	EC Representative Address	
MAT	Material Grade Stainless Steel like 316L, 316LVM, Titanium TiAl6V4	
QTY	Quantity in the package	



INSTRUCTIONS FOR USE

DEVICE SYSTEM NAME:

GREENS SURGICALS (P) LTD. Bone Screws

DEVICE DECRIPTION:

The bone screw system consists of non-sterile bone screw implants. The plates are the devices, used to fasten the bones for the purpose of fixation of fractured bones.

The GREENS SURGICALS (P) LTD. one Screws are differentiated by the on the bone, their function, their size and manner in which they are fastened the type of bone they are intended to be used for.

Five Types of Screw Cortical (cortex)

Cancellous Malleolar Cannulated

DHS and DCS Plates. DHS (Dynamic Hip Screws) only for

These screw variants can be pro ded with locking compression thread types as well as regular types.

Type of Recess Hexagonal. Diameter Range 1.5mm to 7.3mm. Length Range 6mm to 150mm.

MATERIALS: THESE DEVICES CAN BE MADE IN THE FOLLOWING

MATERIALGRADES

STAINLESS STEEL: 316L, 316LVM ALLOY

TITANIUM ALLOY, TIAI6V4

INDICATIONS FOR USE:

GREENS SURGICALS (P) LTD. Bone Screws are provided non-sterile. The bone screws when used in combination with plates are intended for treating fractures of various bones in combination with corresponding bone plates including the clavicle, pelvis, scapula, long bone (humerus, ulna, radius,

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INSTRUCTIONS FOR USE

quaranteed if adequate care and precautions are not taken. The screws can be used alone as well upon the selection and decision of the surgeons performing surgeries.

If adverse effects happen, it may necessitate re-operation, revision or removal surgery, arthrodesis or the involved joint and/or amputation of the limb.

MRI COMPATIBILITY:

The GREENS SURGICALS (P) LTD.. Bone Screws have not been evaluated for safety and compatibility in the MR environment. The GREENS SURGICALS (P) LTD.. Bone Screws have not been tested for heating or migration in the MR environment

SELECTION OF THE PATIENT

During selection patients the ollowing factor have to be considered:

a) Immunological intolerance Immunological intolerance may occur in some patients. Where material sensitivity is suspected, appropriate foreign body tests should be performed

b) Degenerative Diseases

In the case of patients suffering from degenerative diseases, this can get aggravated during implantation, and will decrease the expected life of the implant. In such cases surgery can be considered only as a temporary relief.

c) Mental illness

Mental illness or schizophrenia may cause patients to ignore the limitations and precautions of the implanted material, leading to implants fracture and complication

d) Alcohol and Drug Addiction

The patients, addicted to alcohol and drugs, ignore, during the state of stupor or during the stage of withdrawal, the necessary precautions for the use of implants. This may result in . complications of implants fracture.

INSTRUCTIONS FOR USE

femur, tibia and fibula), and small bone (metacarpals, metatarsals, phalanges).

CONTRA INDICATIONS:

The implant should not be used in a patient who has currently, or who has a history of:

- Local or Systemic acute or chronic inflammation.
- Active infection or inflammation.
- Suspected or documented metal or intolerance.
- Symptom atic Arthiritis.

WARNING:

Serious Post-operative complica tions may occur from the use of implant in a patient who-

- Lacks good general physical conditio
 Has severe osteoporosis
- nomalies.
- Demonstrates anatomical or physiological Has immunological response, sensitization sensitization or hypersensitivity for foreign materials.
- Do Not Re-Use. Do not re-process. The device is not designed for re-processing. Reprocessing of the medical device intended for single use devices may lead to degraded performance or a loss of functionality. The cleaning and disinfection / sterilization for re-processing of these single use devices has not been validated nor any authentic information is available. So re-process of the single use device is not allowed.

Adequate knowledge of Surgical Techniques, proper selection and placement of implants and post-operative patient care are important considerations while performing an orthopaedic surgical procedure. Therefore it is essential that the implants are used by a qualified Medical Practitioner only.

NOTE: It is the responsibility of the surgeon to discuss, with the patient, the precautions, possible risks, warnings, consequences, complications and adverse reactions which may occur as a result of the surgical procedure and implantation of the device(s).

The patient should be informed that the life expectancy of the device is unpredictable and once implanted, successful results cannot be

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INSTRUCTIONS FOR USE

e) Obesity

An obese patient produces abnormal stresses leading to increased load on the implant which ultimately results in failure of the implant.

f) Activity

If the patient indulges in an activity involving significant muscular strain in the implanted region, the result may be failure of the implant.

SELECTION OF THE IMPLANT/IMPLANT SYSTEM

ection For successful implantation, the se Selection of the bone screw is very im of the proper size, the important

The size and the shape of the uman bones puts strength of implants during fracture management and re-constructive surgery. The Doctor/Orthopedic Surgeon has to select the appropriate implant depending upon the application, which should also be free implant depending upon the application from any apparent corresion or any man defect. nanufacturing

The plate should conform to the shape of the bone. Any inequality should be adjusted by accurate shaping of the plate. To fit the bone is not recommended as the screws are instantly subjected to a strong expelling force. Hence, plate contouring should be done by the plate benders designed for this purpose.

Care should be taken that there are no scratches or distortions sharp edges at the site of the screw hole.

These may cause defects on surface finish and result in improper device performance.

IMPORTANT

The screws, even if properly fixed may fatigue and break. Breakage may be due to unstable implant fixation or insufficient support.

If the screw is not properly centred as it is being tightened, there will be a tendency for the countersink in the plate to force it to one side, thereby damaging the good threads already cut in the bone and producing a strain which will probably lead to necrosis and early loosening of the screw.

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