GetMet

Metal Detector for Clinical Use

A Simple Revolution in Clinical MedTec

A new medical device for detecting metal objects in soft tissue & bone

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A new medtech innovation for detecting metal objects in soft tissue & bone

PROBLEM

*Metallic particles, such as **screws**, **wires** and other foreign metal bodies in **soft tissue** and **bone** can sometimes be a real problem. Sometimes these particles get under the skin accidentally, sometimes intentionally, for instance in **fracture treatment**. The only method generally available for detecting these metallic particles is the **X-ray**, which can be costly inconvenient and exposes the patient and the personnel to radiation.*

SOLUTION

***GetMet** is a handy device, suitable for detecting **all types of metal**, including **titanium** and rust proof metals. In first aid it is suitable for removing metal objects, such as **bullets**, **splinters**, **nails**, **metal chips** and **pins** from the body. It can also be used in deeper surgery, for instance in carrying out a laparotomy or a thoracotomy.*

MHRA Regulating Medicines and Medical Devices

CE

MD

EUDAMED

EUIPO EUROPEAN UNION INTELLECTUAL PROPERTY OFFICE

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Our Solution

Unique Handheld Clinical Metal Detector





- *Precision Instrument: detects **all types of metal** (inc. titanium & rust proof)*
- *Transforms the process & removal of **plates**, **screws, staples, pins & wires***
- *A&E: helps deter & remove **bullets**, **splinters**, **nails & metal chips***
- *Deep Surgery: application in laparotomy or a thoracotomy*
- *Applied in: **orthopaedics (inc paediatrics)**, **traumatology**, **foot** & **hand***
- *Proven use in war & crisis surgery removing shrapnel and other metal objects*
- ***No harmful radiation** for the patient or medical staff (unlike X-Ray)*
- *Reduction of Trauma: **prevents the need for exploratory incisions***
- *82% reduction in use of x-ray timing saving of 31% - 72% in select surgical operations (UK & Germany)*

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Fields of Clinical Use

Fast Recovery. No Harmful Radiation.

Fast location, small incisions, minimal soft tissue damage.

X-Rays of a Patella Fracture That Has Been Fixed With Two Kirschner Pins and Cerclage Wire

GetMet makes it easy to locate X-rays of a patella fracture that has been fixed with two Kirschner pins and Cerclage wire. With the advanced technology of GetMet, the precise location of metallic objects can be easily detected, ensuring that the recovery process is as effective and efficient as possible.

Examples of types of fractures:

- *Fracture of the patella. For removal of K-pins and Cerclage wires*
- *Fracture of olecranon. For removal of K-pins and Cerclage wires*
- *Fractures of metacarpals. Removal of K-pins*
- *Fractures of metatarsal bones. Removal of K-pins*
- *Fractures of digits of foot and hand. Removal of K-pins*
- *For removal of temporary metallic implant fixation*

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Schematic

Operating Principle

The GetMet uses **inductive sensing technology** to detect metallic objects by a localised **electromagnetic field**. The GetMet **does not create** ionising radiation. GetMet features a highly visible round-shaped bar graph-style **LED display** as well as a **voice indicator** that signals detection level.

GetMet is **battery operated** (2 x AAA batteries) with the battery voltage internally stabilised for a long and problem-free operational time. When powered on, the GetMet is ready to use within a few seconds. There are three detection sensitivity ranges to choose from.

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Case Study Dr. Michael Koch

Hand Surgery

Across 300 yearly operations a hand surgeon such as Michael Koch would save 150.000 euros in the public German healthcare system over 5 years. This in addition to other benefits from reduced trauma to the patient, reduction of x-ray to both the patient and medical staff.

'Be it in the emergency room, in the emergency services or in the operating room! With the GetMet you can find any metal foreign body quickly, specifically and precisely so that you can remove it - completely without X-rays. This procedure is time saving and protects your staff from unnecessary X-rays exposition'

*- **Michael Koch (Hand Surgeon, Munich Clinic)***

- *82% of procedures had a reduction in X-ray usage**
- *72% reduction in operation time when GetMet is used**
- *Based on 11 comparable procedures at the Munich Clinic in Germany*

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GetMet
by Ortotec Finland

Presenter: Mr Numan Shah (Consultant Orthopaedic Surgeon) at
The Alexandra Hospital, Manchester United Kingdom

Introduction

Based on intricate research, GetMet represents a unique innovation and product of its kind. The best field of application is in the removal of material used in the osteosynthesis of fractures, such as metallic plates, screws, kirschner pins and cerclage wires.

Aims

- Assess the efficacy of GetMet
- Understand and assess patient benefits
- Short term & long term benefits of GetMet usage in healthcare

Usage

GetMet has been successfully used for an orthopaedic surgical procedure at The Alexandra Hospital, Manchester. We have found that:

- GetMet is easy to use
- Managed to detect 3 out of 4 metal artefacts straightaway, and GetMet guided the surgeon to the location of 4th artefact. As the 4th screw was located slightly deeper than the others, X-ray was used to detect it
- Detection rate for GetMet was around **75%** in this specific surgical procedure
- GetMet was used in October 2023

Benefits for Patients

- **GetMet doesn't omit ionising radiation like X-ray, therefore patients are not exposed to harmful radiation**
- **Can possibly reduce operating time by helping surgeons to place surgical excisions correctly**
- **Less surgical time means speedy recovery for patients and shorter hospital stays**

Figure 1: GetMet Mark II Device

Figure 2: GetMet Detection Rate

Benefits for Healthcare Professionals

- **Easy to operate, with no formal training required**
- **Can possibly reduce the cost of radiological examination as device detects all types of metals**
- **Can help reduce surgery times, which has direct impact on patient hospital stay**
- **Cost savings in terms of resources as it can possibly reduce the need for a specialist radiographer and radiologist**
- **Shorter hospital stay can help manage waiting lists within healthcare**
- **Can be used for small operations & procedures in any type of surgical setting**

Conclusion

- **GetMet presents a simple revolution in the field of clinical metal detection. It is a small handheld, battery operable device that requires very little training and is easy to operate**
- **GetMet doesn't just bring benefits to patients, but also to healthcare in terms of cost and resource management. We believe that the product is of value in both first aid surgery and elective surgery**

References

1. https://onlinelibrary.wiley.com/doi/10.1111/j.1742-1241.2005.00456.x
2. https://www.sciencedaily.com/releases/2007/06/070618132057.htm

Version 001UK - 1 Nov 2023

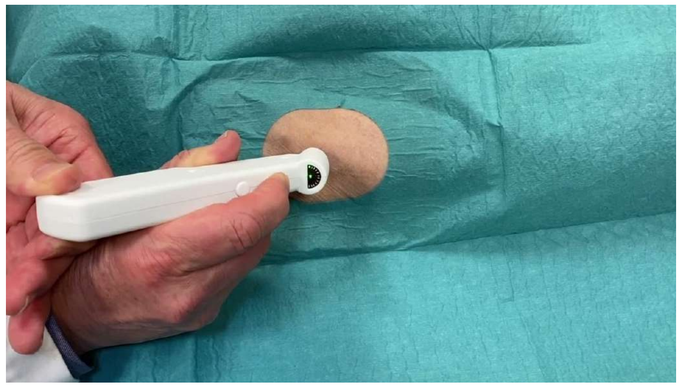
GetMet- Quick, Easy to Use & Safe

Operating Demo and Use Cases

Operating Demo

Druzhkivka 1st Support Hospital (Ukraine)
Military Use

Slavjansk (Ukraine) Military Case



Detection of Titanium Screws in the Ankle

Ortotec Finland UK

Introducing GetMet in Surgical Care

GetMet is at an early stage of adoption in the following countries UK, Finland, Switzerland, Germany, MENA, Slovenia, Croatia, Ukraine and France.

*Ortotec Finland are part of the **WMHTIA West Midlands healthcare accelerator** and collaborate with **MTIF / Nottingham Trent University** and **The Manufacturing Technology Centre** in Coventry for UK manufacturing. **MD-Tec in Birmingham** (NHS) produced an 'expert review' of GetMet for the NHS.*

***GetMet early UK adoption & testing (orthopaedics & traumatology)**:*

1. ***NCA NHS (Manchester) - orthopaedics (Surgeon Numan Shah)***
2. ***Royal Orthopaedic (Stanmore, London) - orthopaedics (Surgeon Elizabeth Tissingh)***
3. ***Kings College NHS Trust (London) - orthopaedics (Surgeon Sandeep Kohli)***
4. ***Royal Berkshire NHS Trust (Reading) - orthopaedics (Surgeon Sean O'Leary)***
5. ***Birmingham Trauma NHS - orthopaedics (Surgeon Ansar Mahmood & Neil Eisenstein)***
6. ***JPaget - orthopaedics (Surgeon Viktoras Kubaitis)***
7. ***Surgeon & Startup Founder David Morgan (West Midlands)***
8. ***Southampton & Winchester (Surgeon Hand Surgeon Alistair Phillips)***
9. ***Barts - foot & ankle T&O (Amit Patel)***
10. ***Nuffield Orthopaedic Centre (Oxford) - orth, hand & foot (David Stubbs, Rick Smith)***

UKRI Innovate UK EDGE

wmhtia

NHS

MTIF Medical Technologies Innovation Facility

mtc Manufacturing Technology Centre

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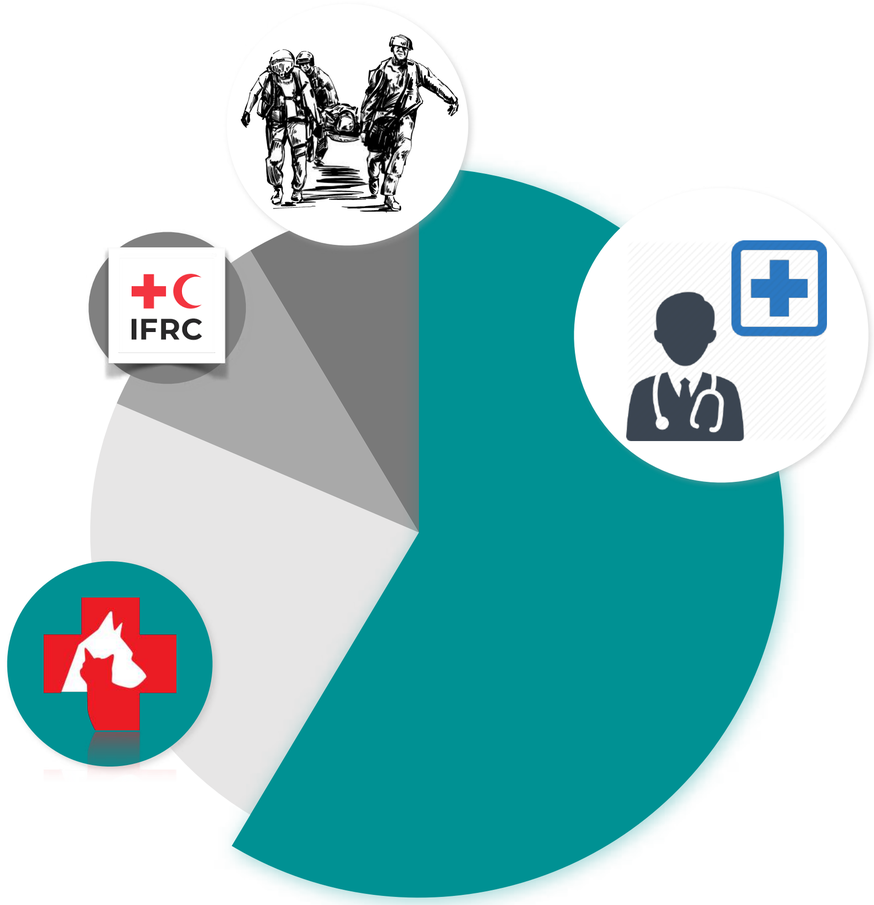
Fields of Use



10% Military

Global military use including active conflicts / crisis use

5% NGO's (crisis)

UN, Doctors Without Borders, International Red Cross, WHO

60% Medical Care

Global public and private medical care

25% Veterinary Care

Cattle, farming and general vet use (pets, horses)

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Overview

A Unique Innovation

					
Product	GetMet	Fujifilm FDR Xair	V-Scan	CEIA PD 240CH	Metrasense Ultra w/ XACT ID
Price per unit	€3,999	£50,000	£3,999	$480 - $4,500	£14,000
Detects metal	☑	through imaging	not suitable for metal	☑	☑
Handheld	☑	no	☑	☑	no
Audible alarm	☑	no	☑	☑	☑
Battery operable	☑	no	not suitable for metal	☑	no
Technology	induction	x-ray imaging	ultrasound	induction	induction
Suitable for clinical use	☑	☑	☑	no	no

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Ortotec Finland

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Development Specialist

GetMet by Ortotec Finland

User Experiences

I have used the GetMet on 14 occasions, during these I did not need to use Xray even once, without GetMet I would have used Xray 3-4 times...this device reduces X-rays experienced by the patient & staff, shortens surgery time and patient trauma, and so the rehabilitation of the patient is hastened as well' ***- Urho Väätäinen, Associate Professor in Orthopaedics and Traumatology, Kuopio, Finland***

The product is an excellent innovation in the field of surgery. Using this device it is possible to reduce operating times, place surgical incisions correctly and speed up recovery. This product reduces the need for Xray imaging and the use of a transilluminator' ***- Jorma Huuhtanen, former Minister of Social Affairs and Health, Finnish Parliament***

These devices have become integral to our daily operations in war-torn Gaza, particularly within Trauma Stabilisation Points, Medevacs, and major hospitals such as Al Aqsa. The GetMet metal detectors are used daily to efficiently and accurately detect shrapnel and other metal fragments in patients, For instance, during a recent mass casualty event at Al Awda Hospital, significantly improving patient outcomes.'
- Michail Liontiris, MD Medical Director at Cadus

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Global CE Mark: Class I Device

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