

# JSINS/EMPART

## POWERED BY NEUROMUSCULAR TECHNOLOGY

IsoTechnology 

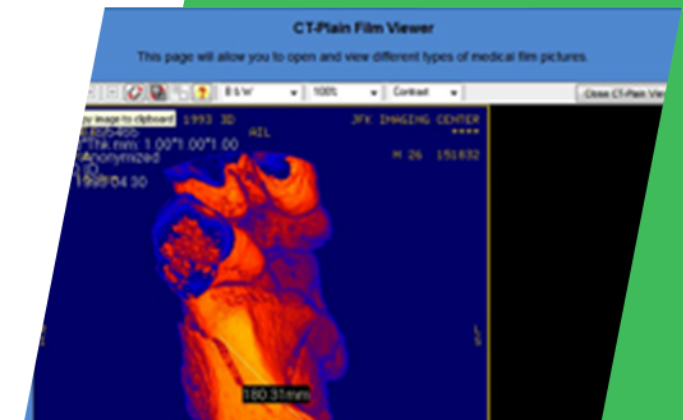


 **JSINS**  
Joint Surgeons Interactive  
Network System

# WHAT IS JSINS/EMPART

## SOLUTIONS

- ◆ The JSINS/EMPART system is a unique patented method of accurately and securely transferring electronic information on a patient
- ◆ Patient management is streamlined and the risk of patient information loss is minimized
- ◆ Compact, portable and easy to hygienically maintain
- ◆ HIPAA Compliant
- ◆ Data is usually transferred to CD or DVD including CT Scans
- ◆ Selected data including selected CT scans can be Emailed to other treating doctors for comment and advice
- ◆ Additional data files can be imported into the system and encrypted for transfer. Additional files can be in any format from any application
- ◆ Patient information provides continuous record of patient progress - Notes & Summaries
- ◆ Pictures convey more than words
- ◆ Text can be dictated or typed directly into data record
- ◆ JSINS/EMPART software provides a number of very useful measurement and illustration tools
- ◆ Information progressively recorded is encrypted and cannot be changed by subsequent treatment providers



# JSINS/EMPART

## FEATURES

- ◆ Each session has a limit of 6 Pictures ( a combination of camera pictures and CT scan imports) and 4 form scans – to keep the email size under 1 MB. There is no limit on notes, fields, additional data, or image editing
- ◆ Pictures from a camera, cellphone, CT, MRI, or other imported Dicom images can be edited directly in the editor
- ◆ Measurements can be performed and angles calculated, as well as drawings directly onto the picture
- ◆ Additional notes can be added by typing directly into the notes field
- ◆ Large Dicom images can be imported and compressed, allowing for drawing and secure transmission
- ◆ JSINS/EMPART allows for additional data to be imported. This additional data can be in any format or file size
- ◆ During the export process the user may choose whether to export the additional data as well as patient data, pictures, scans and film images
- ◆ JSINS/EMPART provides a fast scan to allow for additional patient data on paper forms to be scanned in and saved electronically in an encrypted format
- ◆ The scanned patient forms can be viewed from within JSINS/EMPART or exported for printing at a later date
- ◆ Patient Data can be imported from CD/RW or Thumb drive
- ◆ Exported patient files are very small in size to comply with email size restrictions on many systems
- ◆ Exported patient data is encrypted

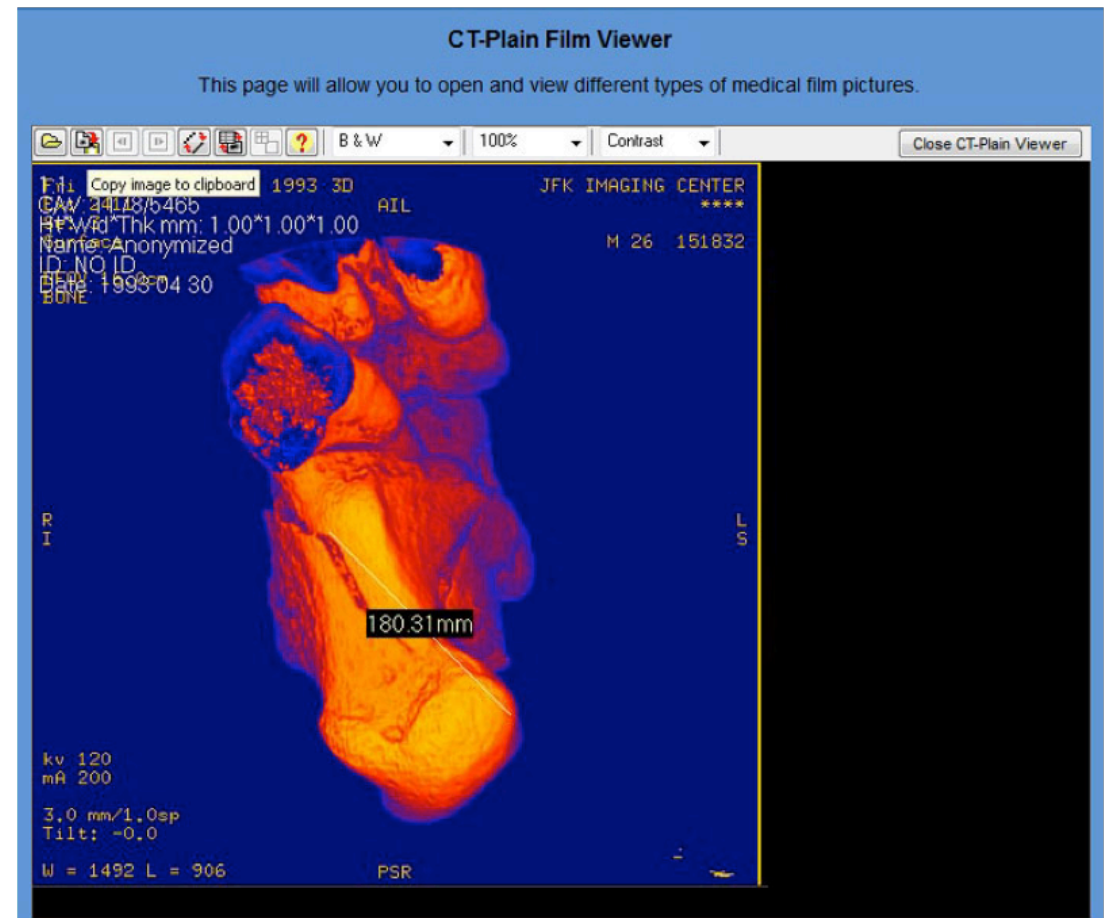


# JSINS/EMPART

## FEATURES

JSINS/EMPART includes a CT Plain Film Viewer with the following features:

- ◆ “Browse” & “Import” many file types. Images can be exported to the JSINS/EMPART image editor
- ◆ Color filters to enhance image
- ◆ Contrast & Brightness
- ◆ Zoom & Section Magnification
- ◆ Measurement tool for highlighting



# JSINS/EMPART

## FEATURES

- Burns / Lesions measurement and progressive recovery records using fine pixel edge detection from photographic captures
- Able to interface with other software Visual C#, C++, .NET, Basic and Python
- Extensive measuring and drawing tools for progressive healing measurements.
- Acquisition, Visualization, processing and analysis functions.
- Management of Subject and associated images





# JSINS/EMPART

## ENCRYPTION SECURITY

- ◆ JSINS/EMPART access by Administrator assigned Password Only
- ◆ Accountability Logging of entered Data
- ◆ All Data Encrypted
- ◆ AES encryption with 128-bit keys
- ◆ Dynamic brute force counter measure - iterative key wrapping
- ◆ Selective compression before encryption - faster downloads/uploads
- ◆ Retains original file name and information of an encrypted file
- ◆ Secure memory handling - no keys or data in the paging file
- ◆ Industry standard algorithms
- ◆ Data integrity verification - no undetected modification
- ◆ Unique data encryption keys used for every file and (re-)encryption
- ◆ Additional Database Password Protection



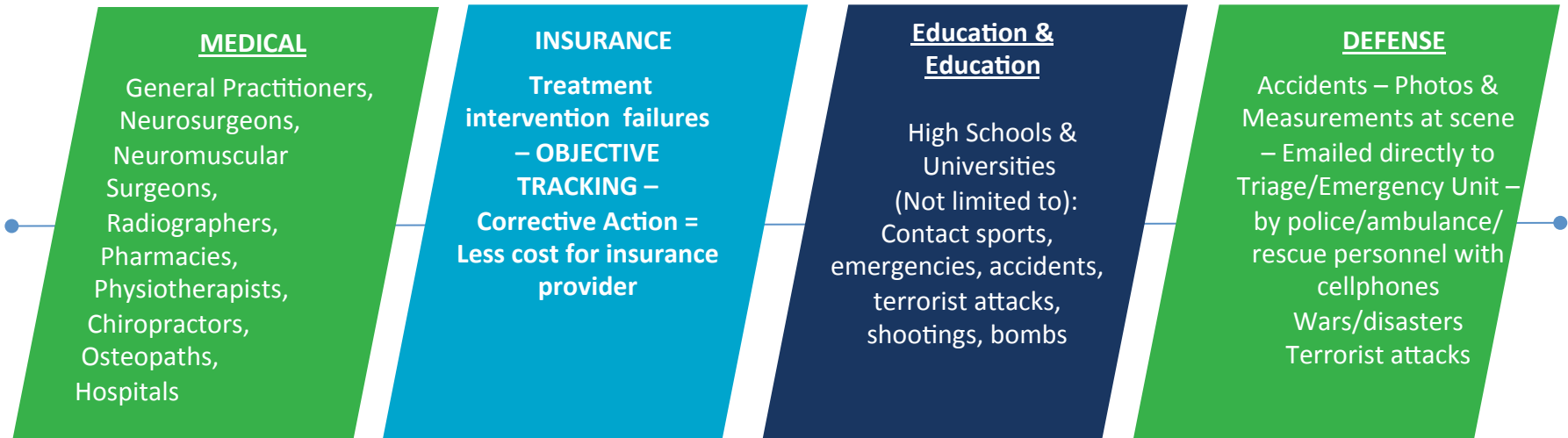
# JSINS/EMPART

## MARKET ADVANTAGE

- ◆ OPTIMISE THE PERFORMANCE of our system environment – Health Intelligence Platform
- ◆ SECURITY & INTELLIGENCE for User-to-User visibility and Proactive Medical Management – A CONTENT MANAGEMENT SOLUTION
- ◆ Using episodic single patient care data to accumulate continuous societal/population management
- ◆ INTEGRATED CARE PROCESSES – Specialist Diagnosis & Comment in a ‘time efficient’ information highway – data transfer < 1 Mb = 4 Photos PLUS 2 Document scans PLUS Unlimited Text. Alternately MRI’s/CT Scans/X-Rays
- ◆ Maintained by experienced Technicians 24/7 for ease-of-practical advice

## MARKETS

JSINS/EMPART can provide efficient and effective management to a number of medical markets:



# WHO IS

## ISOTECHNOLOGY

- ◆ JSINS/EMPART has been pioneered by Dr Terence Vardy, an international expert in medical devices, and his qualified team, over the past 15 years
- ◆ Dr Vardy, whose educational credentials and qualifications are extensive, has:
  - Practised on Harley Street, London, United Kingdom from 1988 to 1991
  - Lectured at NASA – at the Ames Research Center, San Jose California and Johnson Space Center, Houston, between 1994 and 1997 on Exercise Countermeasures for -1G
  - Consulted to US Government Officials on medical technology development
  - Been a Prime Contractor to the USA Government Department Of Defense from 1999
  - Been extensively involved in various research projects in the USA, UK, Australia and Russia and has a number of articles published across a wide range of related medical topics
- ◆ IsoTechnology has assembled a team of technical and industry experts to assist in the development of this product. These research personnel and associates, located in many countries, are actively working with the product to ensure the company continues to be the leading edge of technology development in this sector



**Dr. Terence Vardy**  
(D.O., N.D., M.App.Sc., Dip.Int.Bus.Mgmt.,  
MAAFN, Ph.D Candidate Ph.D.  
Movement Neuroscience Program)



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