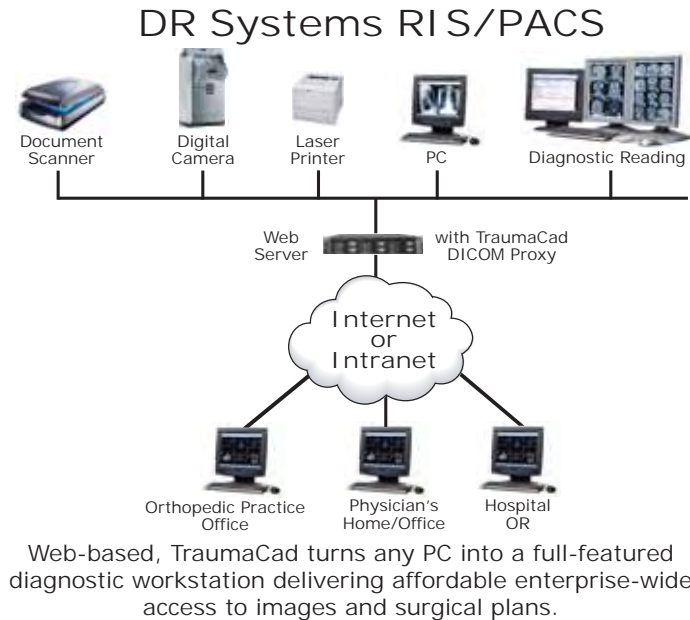


Orthopedic Templating

TraumaCad Interfaced with DR Systems RIS/PACS



DR Systems offers TraumaCad orthopedic template software as a RIS/PACS option. TraumaCad allows surgeons to completely plan their preoperative orthopedic procedures. With DR Systems RIS/PACS, they can reliably and efficiently manage all their orthopedic cases, and store and retrieve patient records and exam images.

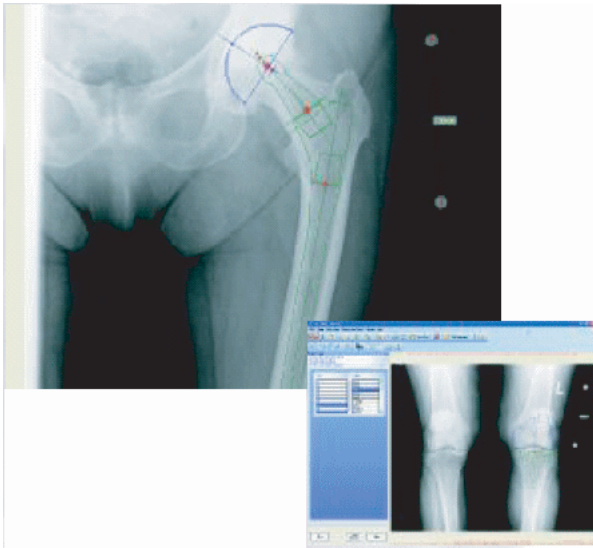
Develop Preoperative Surgical Plans

- TraumaCad for orthopedic surgeons. Surgeons can develop their preoperative surgery plans by manipulating orthopedic digital images by using TraumaCad from Orthocrat, Ltd. Image-manipulation techniques include reduction of fractures and application of suitable fixation or prosthetic systems. In addition, TraumaCad:
 - Provides a set of tools to determine the axis of deformity, as well as a module to simulate osteotomy applications.
 - Is compatible with CR, DR, CT, MRI modalities.
 - Provides easy updates of orthopedic device templates.
 - Has robust DICOM protocol support.
 - Supports many implant manufacturers, including Biomet, Inc.; DepuyOrthopaedics, Inc; Smith and Nephew; Stryker; Wright Medical Technologies; and Zimmer, Inc.
- DR Systems RIS/PACS solution. Compared to traditional film-based templating techniques, TraumaCad provides greater accuracy and simplicity for a completely film-free orthopedic department. Because TraumaCad is Web based, orthopedic surgeons can access their patient exams and records from home or office.

Complete Digital Solution for Orthopedic Procedures

- Order exams. Using DR Scheduler, surgeons can order exams from their offices or throughout the clinic or hospital.
- Import and calibrate. Interfaced with DR Systems RIS/PACS, TraumaCad enables import and export of any PACS file (x-ray, CT, MR) from the local workstation or Central Server. Scanner, JPG, and digital camera images can also be imported.
- Measure. In manual, semiautomatic, or automatic mode, TraumaCad provides a series of accurate anatomical measurements. TraumaCad's ruler tool facilitates precise calibration, so surgeons can effectively compare templates to DR Systems PACS images. In addition to length, width, and diameter, TraumaCad also measures such distances as leg length discrepancy, Cobb angle, Dror Paley, and malalignment tests.
- Apply templates. By automatically providing calibrated online implant images, TraumaCad expedites the implant evaluation and selection process. Surgeons can record several scenarios and compare them to find the optimal implant. After choosing a template, the surgeon can easily scale and manipulate it, store the information in DR Systems PACS, and retrieve it at any time.
- Dictated report. DR Systems RIS/PACS allows reading physicians to record quickly a report summary to accompany the images when they are ready. Surgeons can play the voice clip while viewing images. Later, after the full report is transcribed, the system attaches the report file to the case.
- Save and archive. After completing a procedure, the system saves the full report in the patient's DR Systems RIS/PACS file and processes orders and billing information.

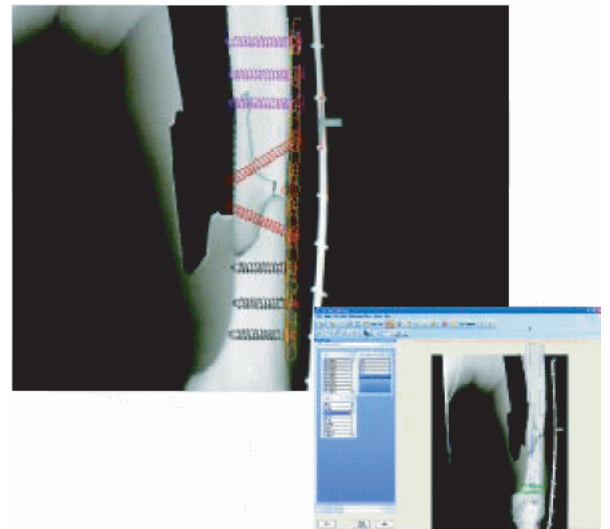
Joint Replacement



TraumaCad optimizes joint replacement procedures. It is ideal for complex reconstructions and osteotomies as well as for standard primary replacements. Surgeons create an optimal surgical plan by evaluating the postoperative anatomical alignment of various surgical scenarios, such as cutting, displacing, and implanting. Incorporated into the DR Systems RIS/PACS patient file, this plan helps to ensure the success of the procedure, while reducing operating time. TraumaCad offers an easily accessible database of implants, including template libraries for total ankle, total knee, total hip, and total shoulder replacement.

Trauma Planning

Designed to meet the needs of the trauma environment, TraumaCad can connect to a C-ARM in the operating room so surgeons can plan directly in the OR immediately before a case begins. Because TraumaCad interfaces with DR Systems RIS/PACS, surgeons can access all patient and case-related data.



Pediatric & Deformity Planning



TraumaCad helps pediatric orthopedic surgeons take anatomical measurements, compare them to normative standards, and simulate corrective procedures. Easy-to-use wizards help surgeons produce a wide range of anatomical measurements, such as growth multiplier, acetabular index, malalignment, and spinal deformity. The system automatically compares each measurement to the normal parameters published in the literature, providing instant evaluations of patient anatomy. Measurement and evaluations are saved into the DR Systems RIS/PACS for an easy transition to digital radiology.