

TraumaCare

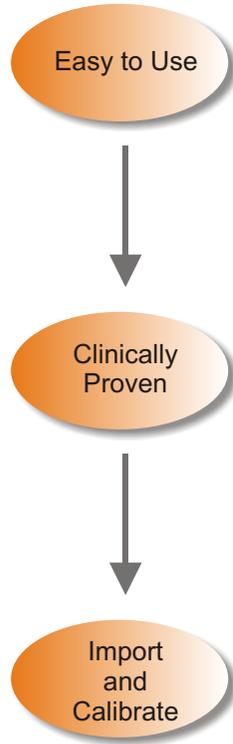
Comprehensive solution for orthopedic preoperative planning



bbnisys, the maker of TraumaCare, was established in 2005 by experienced team, with the goal of developing practical computer-assisted surgical tools.

TraumaCare, bbnisys's introduction in a growing product line, enables pre-surgical planning of trauma, arthroplasty and osteotomy procedures.

bbnisys products are designed for small to medium-size practices as well as for large hospitals and academic institutions.



TraumaCare is a comprehensive solution for Orthopaedic Surgeons, to meticulously prepare a Pre-Operative Plan prior to a surgery. Based on the concepts and principles of AO - Fracture Reduction Technique Manual, TraumaCare judiciously follows these steps of preparing the pre-operative plan with intrinsic graphics features to dynamically achieve the layout of the plan with ease and dexterity.

The TraumaCare facilitates the Orthopaedic Surgeon to prepare a complete layout of the fractured region, trace them with different colors, superimpose them, move, rotate and flip them, and add implants prior to a surgery. TraumaCare allows surgeons to evaluate and manipulate Digital X-ray Images, while performing various pre-operative surgical planning and evaluation of X-ray Images.

Several tools are provided to measure Anatomical details and discrepancies. These tools are designed to endow a high level of dynamic features to eradicate chances of error and mundane task of redoing work repeatedly.

The complete schematics of the pre-operative procedure can be obtained in the form of printed graphics, after a preview which allows to scale the image if necessary and set the orientation to portrait or landscape. A complete report of the implants used with their quantities, and the displacement and rotation of bones/fragments can be generated.

TraumaCare can be used in conjunction with a C-ARM to augment the already existing features, and to circumvent the need of performing a pre-operative plan from the captured Digital X-ray Image.

SYNERGISE YOUR POTENTIAL



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TraumaCare

Comprehensive solution for orthopedic preoperative planning



Supports all the three Techniques of AO

- Direct Overlay - Straight Bones
- Sound Side - Acute Fracture
- From Axis - Lower Extremity

Tracing with Splines and FreeHand

- Spline curves - Most accurate and can be edited for corrections
- FreeHand curves - Best suitable for small Bone fragments and fast tracing

Tracings can be Flipped Horizontally and Vertically

Dynamic Mover

To Move Traced objects and Implants

Rotator

To Rotate Traced objects and Implants

Dynamic Axis

Anatomical Axis can be placed and dragged to desired location.

Calibration Tool

Allows to Calibrate the Digital x-ray Image with a Calibration tool via. Spherical or Linear method.

Measurement Tool

Allows multiple measurement of Digital x-ray Image and Preoperative plan layout

Image Processing

The Digital x-ray Image can be Sharpened, Blurred, Inverted prior to tracing to facilitate viewing of intricate details during tracing.

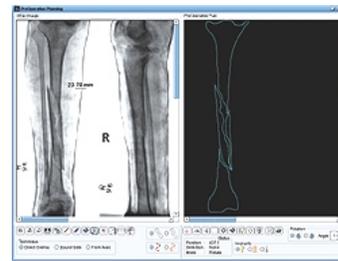
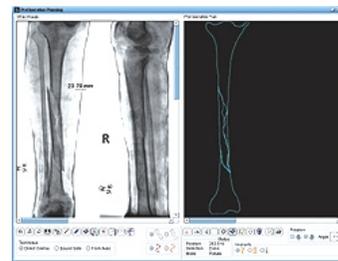
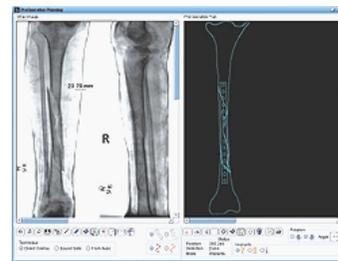


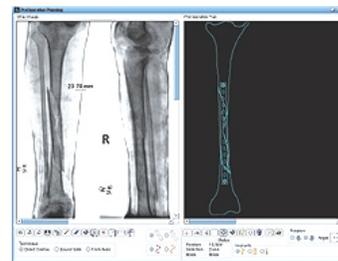
IMAGE TRACING



TRACING WITH FIXATION



FINAL TRACING WITH IMPLANTS



FINAL TRACING WITH IMPLANTS AND SCREW

Implants

Provides almost all types of Plates, Rings, Screws, Bolts, Rods, Nails, Wires and Stem.

Print & Preview

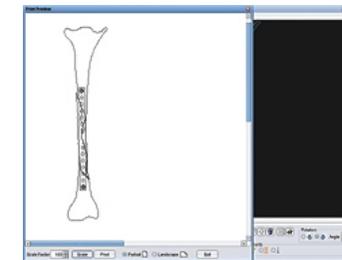
Facility to preview the preoperative plan and scale and orient them if necessary prior to printing.

Report

Comprehensive Report of all Implants used. Identical Implants are clubbed together showing their total Quantities. Details of Bones/Fragment Displacement in millimeters with proper direction, and their Angle of Rotation in Clock-wise/Anti-Clock-Wise direction.

Anatomical Measurement Tool

Supports several means to dynamically measure, Angle, Length, Diameter, Pelvis tool to measure percentage Hip Migration, Leg Length Discrepancy, Sacral Obliquity, Coronal/Sagittal Balance and Degree of Deformity and Plane of Location can be dynamically computed.



FINAL PLAN PRINT PREVIEW



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