# Streamlined tools for trauma assessment and surgical planning

## Philips IntelliSpace Portal CT Acute Multifunctional Review application

Now you have one place to access advanced tools for enhanced diagnostic confidence. The CT Acute Multifunctional Review application (CT AMFR) can streamline image review by allowing easy access to necessary tools to view and analyze CT data sets to assess for trauma and to plan surgery.

### Enhance the speed of diagnosis

CT AMFR helps you reduce the number of clicks, and is fast in completing viewing and analysis of CT data sets for polytrauma patients.

### The value of CT in ED imaging and review…

The use of CT in ED imaging and review has been projected to grow faster than either inpatient or outpatient CT procedures.[1] CT is useful in diagnosis of injury and is especially useful in ruling out spinal injuries. Trauma is the leading cause of death in people under 45 years of age.[2]

### …and in planning for traumatic bone surgery

An aging population, greater incidence of obesity, and increased sports activity contribute to opportunities for growth in image-guided surgery supported by CT.

### One application for fast systematic review

CT AMFR integrates functionality for dedicated bone, spine, and vessel analysis to facilitate the radiologist´s task in systematically reviewing vital anatomical areas possibly affected by traumatic injury.

Using the Philips IntelliSpace Portal CT AMFR, the radiologist reading trauma cases can remain within one comprehensive post-processing application to accomplish the diagnosis of trauma patients that were scanned with CT, and easily communicate major findings to surgeons. CT AMFR offers:

- Viewing stage for trauma assessment
- Rapid vascular assessment
- Automatic spine assessment
- Multifunctional Findings Navigator to easily create, manage, and convey findings
- Interactive pre-surgical MSK

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# Advanced tools to simplify review and assessment for trauma and planning

### IntelliSpace Portal unlocks the power of enterprise-wide distributed data

IntelliSpace Portal is a powerful thin-client solution for advanced image review and analysis. It offers the flexibility to diagnose and collaborate virtually anywhere. This integrated clinical solution is multispecialty, multimodality, and multivendor, which is especially important in the (poly)trauma setting because of the need for effective management of multiple sources and destinations of diagnostic information.

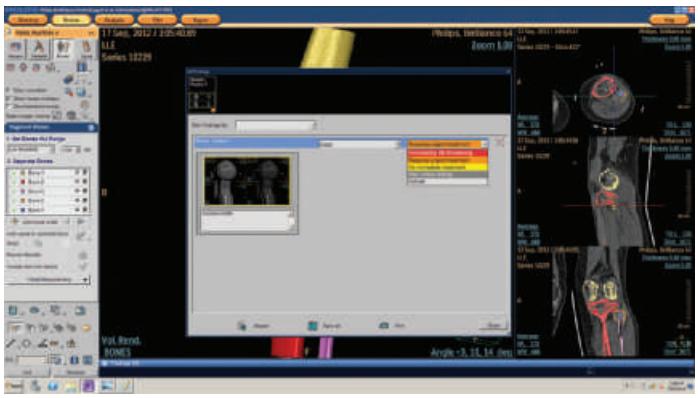
## 1 Viewing

Rule out the most serious injuries with the ease of tuneable viewing protocols.

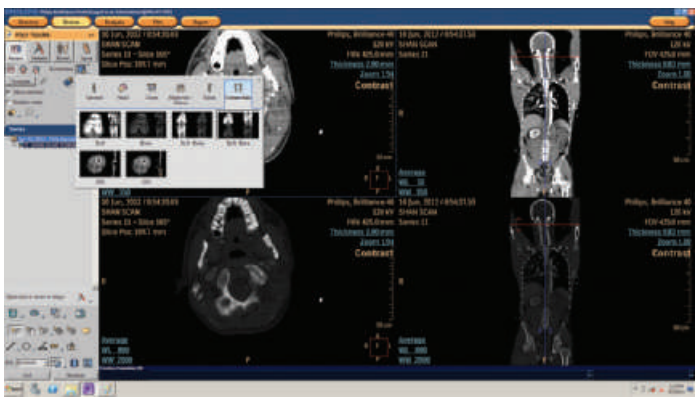
Viewing tools facilitate the radiologist´s task of systematically reviewing vital anatomical areas possibly affected by traumatic injury.

- Tuneable viewing protocols include arrangement of screen layout depending on the type of clinical study (neuro, thoracic, and other)
- Useful for quick assessment of polytrauma
- Easily save key images to the Findings Navigator, which allows user to save snapshots of images with additional information content such as arrows, measurements, and region of interest to a depository for easy retrieval or integration into preliminary or final reports


Quickly and easily indicate the severity of the injury.



Drop-down menu makes it easy to save selected findings, add additional explanatory content, send to referring physicians, and add to reports.



User can manage screen layouts per clinical need.

Save results to the Findings Navigator.

## 2 Rapid vascular assessment for trauma

Rule out vascular injury or disease with real-time local inspection mode.

Confirm or exclude vascular pathologies such as aneurysms, occlusions, stenosis, dissection, or filling defects within contrast-enhanced vessels.

- Place tool within vascular structure and system automatically detects vessel contours and provides maximum and minimum diameters of the selected area, automatically updating these values as user scrolls through the vessel
- Easily save and share results using the Findings Navigator

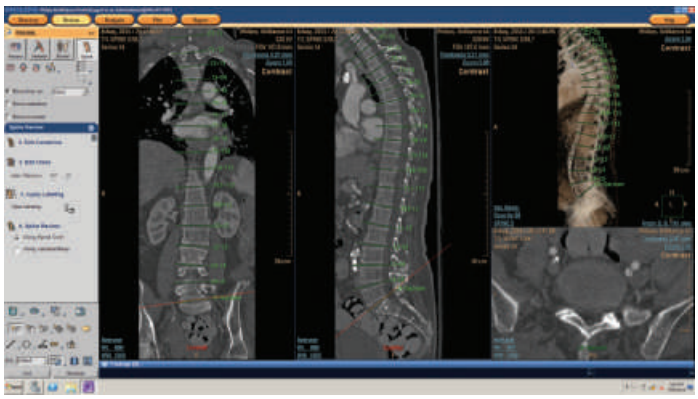
Rapid vascular assessment features focused and zoomed viewing, as well as ability to scroll through data sets.

## 3 Auto-spine for trauma and chronic conditions

Rule out spinal injury or disease.

Automatically generates MPR along spinal cord as well as along disk spaces, allowing for a single image along the entire spine quickly and without interoperator variability.

- Flexible tools account for anatomical anomalies of the spine (e.g., 6 lumbar vertebrae)
- Rapid complete spine assessment, including curved MPR images along spinal cord, cross-sectional images parallel to disk spaces, and identification of individual disk spaces
- Automatically generates centerline along spinal cord and labels vertebra
- Easily save and share key images using the Findings Navigator

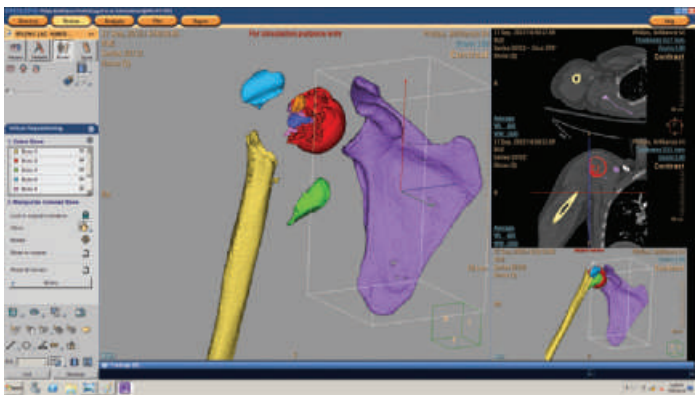


Centerlines of the intervertebral disks are calculated automatically and drawn to offer the reader image scrolling in reformatted, cross-sectional planes with respect to the disk lines and their intermediate levels.

## 4 MSK and surgical planning

Real-time bone disarticulation and surgical planning tools for surgical planning with interactive segmentation of multiple bony structures.

- Separate bony structures for a 3D clear inspection to help comprehensively identify extent of injury
- Virtually plan surgical interventions such as fracture reduction
- Reposition any segmented structure independent of other structures for clearer views
- Easily save and share results using the Findings Navigator



Easily move segmented structures independently of one another onscreen to interactively view different structures for full assessment of injury or surgical planning.

## Transforming care, together

At Philips, we share your vision for the future of imaging science. We recognize that radiology is the cornerstone of diagnosis and treatment, and that clinical integration and collaboration are key to more personal care, better patient outcomes, and lower costs.

# When there's no time to lose

Philips IntelliSpace Portal provides a comprehensive suite of solutions to evaluate the ED patient to smooth workflow and enhance diagnostic confidence.

- CT Brain Perfusion for acute stroke
- CT Comprehensive Cardiac Analysis for acute chest pain
- CT Advanced Vessel Analysis for neurovascular evaluation

The images and descriptions contained herein provide technical specifications and optional features which may not be included with the standard system configuration. Contact your local Philips Representative for a complete specific system details.

Some or all of the products, features, and accessories shown or described herein may not be available in your market. Please contact your local Philips Representative for availability.

**References**
1. Advisory Board Survey, Spring 2012.
2. Hoyert DL, Xu JQ. Deaths: Preliminary data for 2011. National vital statistics reports; vol 61 no 6. Hyattsville, MD: National Center for Health Statistics. 2012.

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