

■ ■ ■ Made In Germany

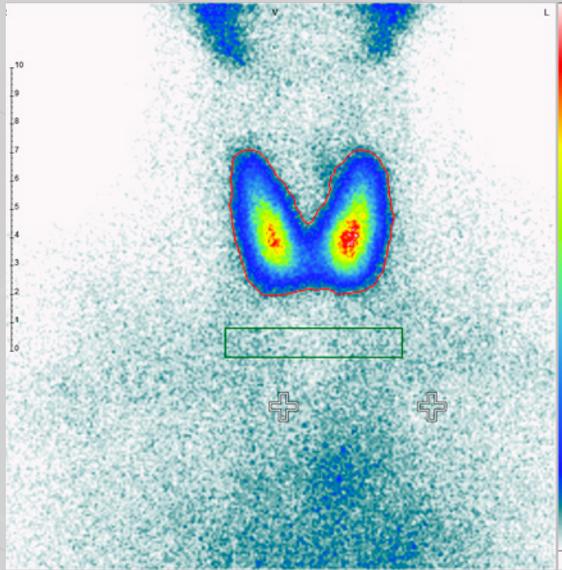
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# SCINTRON 7 NM

Nuclear Imaging Workstation

# PLANAR

## SOFTWARE HIGHLIGHTS



### THYROID UPTAKE

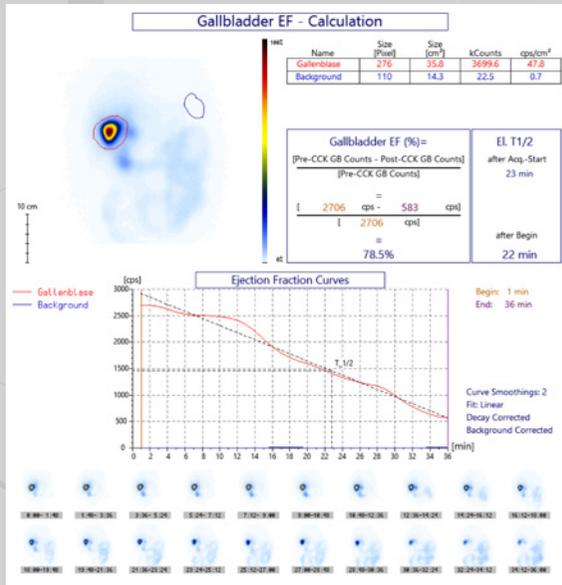
- ▶ Multiple selections of measurement devices, camera or calibrator for syringe activity
- ▶ Simple organization of syringe data using numbers which enable fast calibration of several syringes in a row
- ▶ Setting of anatomical markers after thyroid acquisition
- ▶ Processing of suppression test acquisitions for calculation of pre / post suppression ratio
- ▶ Selectable ROI type, size and location, easy handling

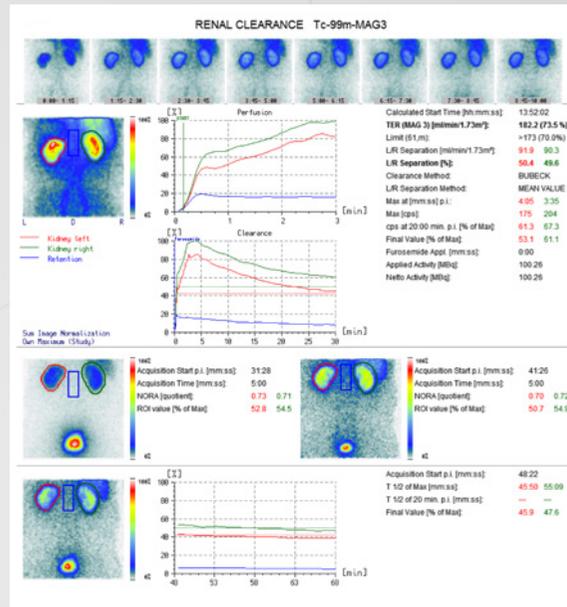
### RADIOIODINE TEST

- ▶ Calculation of individual therapy dose from I-131 test acquisitions
- ▶ Determination of the effective half-life of several iodine uptake measurements
- ▶ Calculation from only one measurement after 5-8 days of capsule application
- ▶ Calculation with one measurement after 24h with default half-life values

### LIVER, GALLBLADDER AND GASTRIC FUNCTION

- ▶ Calculation of gallbladder ejection fraction (GBEF) and liver function (HIDA)
- ▶ Cinematic display of dynamic acquisition
- ▶ Assessment of gastric emptying
- ▶ Result displays containing curves and associated parameters





## KIDNEY FUNCTION

The SCINTRON workstation shows a live-display of the renal curve during acquisition. Additionally the workstation offers several processing methods for quantifying kidney function:

- ▶ TER (MAG3) with and without blood samples
- ▶ GFR (DTPA) without blood samples
- ▶ ERPF (MAG3) without blood samples
- ▶ Calculation of split function
- ▶ Evaluation of renal transplant and single kidney studies

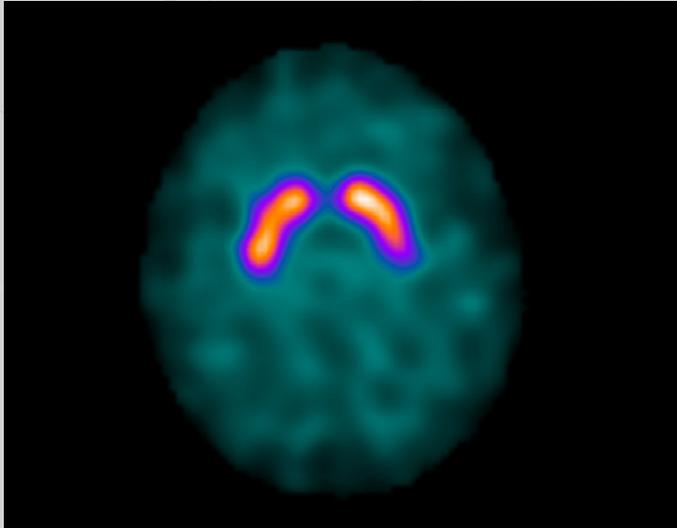
## LUNG PLANAR

- ▶ Quantitative anterior / posterior comparison
- ▶ Calculation of postoperative lung function

## BONE SCAN

- ▶ Dual-intensity display to evaluate posterior and anterior views
- ▶ Quantification of sacroiliac joints within whole body scan, no additional static image required
- ▶ Deconvolution filter for improvement of signal / noise ratio
- ▶ 2 or 3-phase analysis of single bone images (perfusion, bloodpool and bone phase)





# SPECT

## SOFTWARE HIGHLIGHTS

### BRAIN SPECT

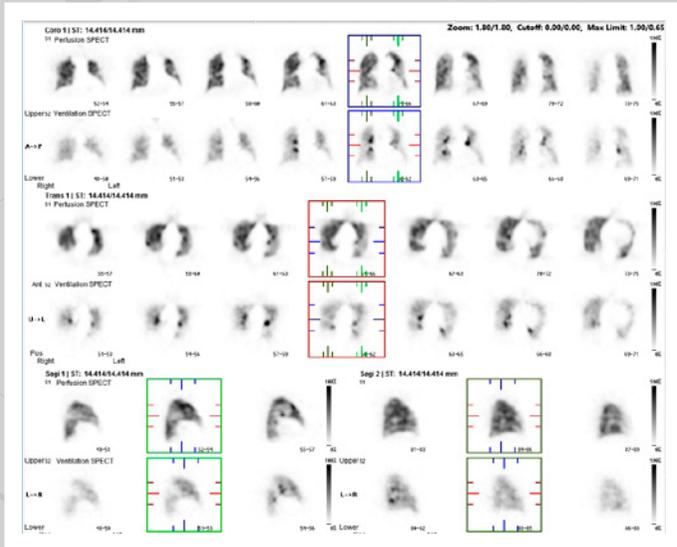
- ▶ Several processing tools for quantification of I-123 brain spect
- ▶ Reconstruction by using attenuation correction according to Chang method
- ▶ Evaluation of brain perfusion studies by automated segment comparison

### ECT SOFTWARE FEATURES

- ▶ 3D iterative reconstruction (DROSEM)
- ▶ Flexible slice displays for individual screen layouts
- ▶ Possibility to acquire SPECT in multiple bed positions

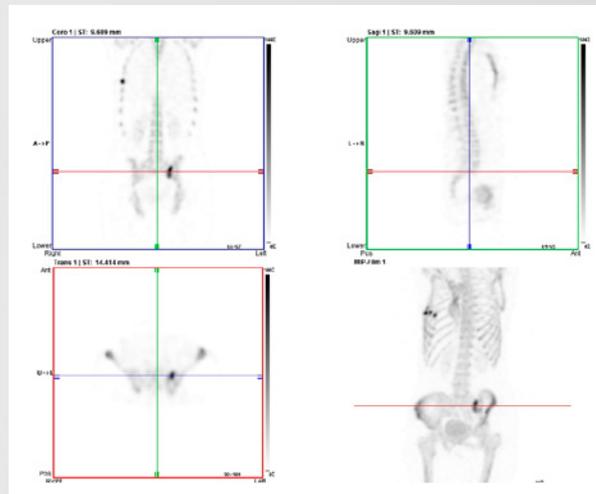
### LUNG SPECT

- ▶ Calculation and displaying of V/P-Quotient in the slice viewer
- ▶ Direct comparison of ventilation and perfusion studies



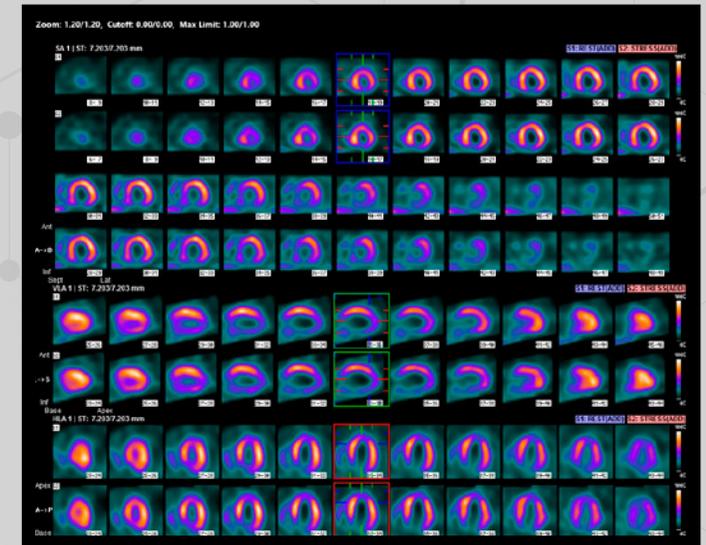
## MYOCARDIAL PERFUSION SPECT

- ▶ Assessment of EF, wall thickening and wall motion for gated SPECT
- ▶ Display of rest / stress bullseye plots and reversibility
- ▶ Calculation of SSS, SRS, and SDS with the use of an individual normal database
- ▶ Optional integrated Invia or Cedars Sinai quantification for cardiac scans



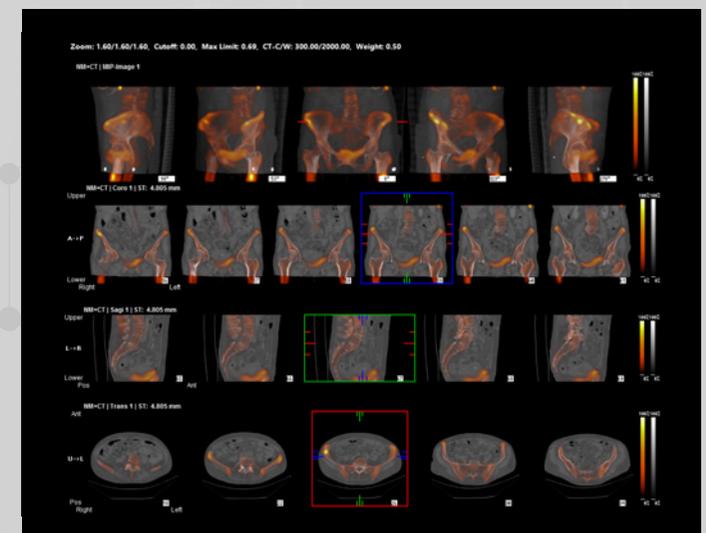
## FUSION (SPECT / CT)

- ▶ Multimodality image fusion (SPECT, PET and CT) of hybrid as well as standalone systems
- ▶ Rigid and non-linear algorithms for fully automated correction of patient positioning
- ▶ Evaluation of non-linear results by deformation grid
- ▶ User specific displays for individual result presentation and fast navigation between slices



## BONE SPECT

- ▶ Stitching of multiple bed positions to display whole-body SPECT



# SCINTRON UPGRADE

## OF EXISTING SYSTEMS

### NEW HARDWARE

- ▶ New integrated acquisition and processing workstation
- ▶ Extension of the product lifecycle by replacing hardware components
- ▶ High-performance workstation for fast image reconstruction and advanced features like multimodality image fusion

### NEW SOFTWARE

- ▶ Optional integrated Invia or Cedars Sinai quantification for cardiac scans
- ▶ 3D iterative reconstruction available for all SPECT studies
- ▶ State-of-the-Art imaging
- ▶ Windows 10 and OS9 for highest IT security

### NEW SERVICE PROVIDER

- ▶ Remote application and service support
- ▶ In-house development, production and testing
- ▶ Experienced field service engineers



# SCINTRON SUPPORT

KEEPS CUSTOMERS HAPPY

## SUPPORT & SERVICE



Family owned, independent and dedicated to the field of nuclear medicine since 1981, the company offers a high level of knowledge that is an essential part of our products. Over the last several decades we established the full production line at our headquarter in Germany, including soft- / hardware development and mechanical production. This allows direct access to experts of each department and fast support via phone or remotely. Additionally our local partners can provide immediate service on site if necessary.



## WINDOWS 10 WORKSTATION

The integrated SCINTRON workstation is the core part of all MiE systems which offers parallel acquisition and processing of different studies. To fulfill the high demand of network security, SCINTRON runs on the Windows 10 operating system.



## UPDATES & UPGRADES

Due to an ongoing development of SCINTRON software, the customer benefits with the latest processing tools according to current medical guidelines.

MiE guarantees 10+ years of spare part availability and service support carried out by MiE engineers or certified partner companies.



[mie-scintron.com/scintron](http://mie-scintron.com/scintron)



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