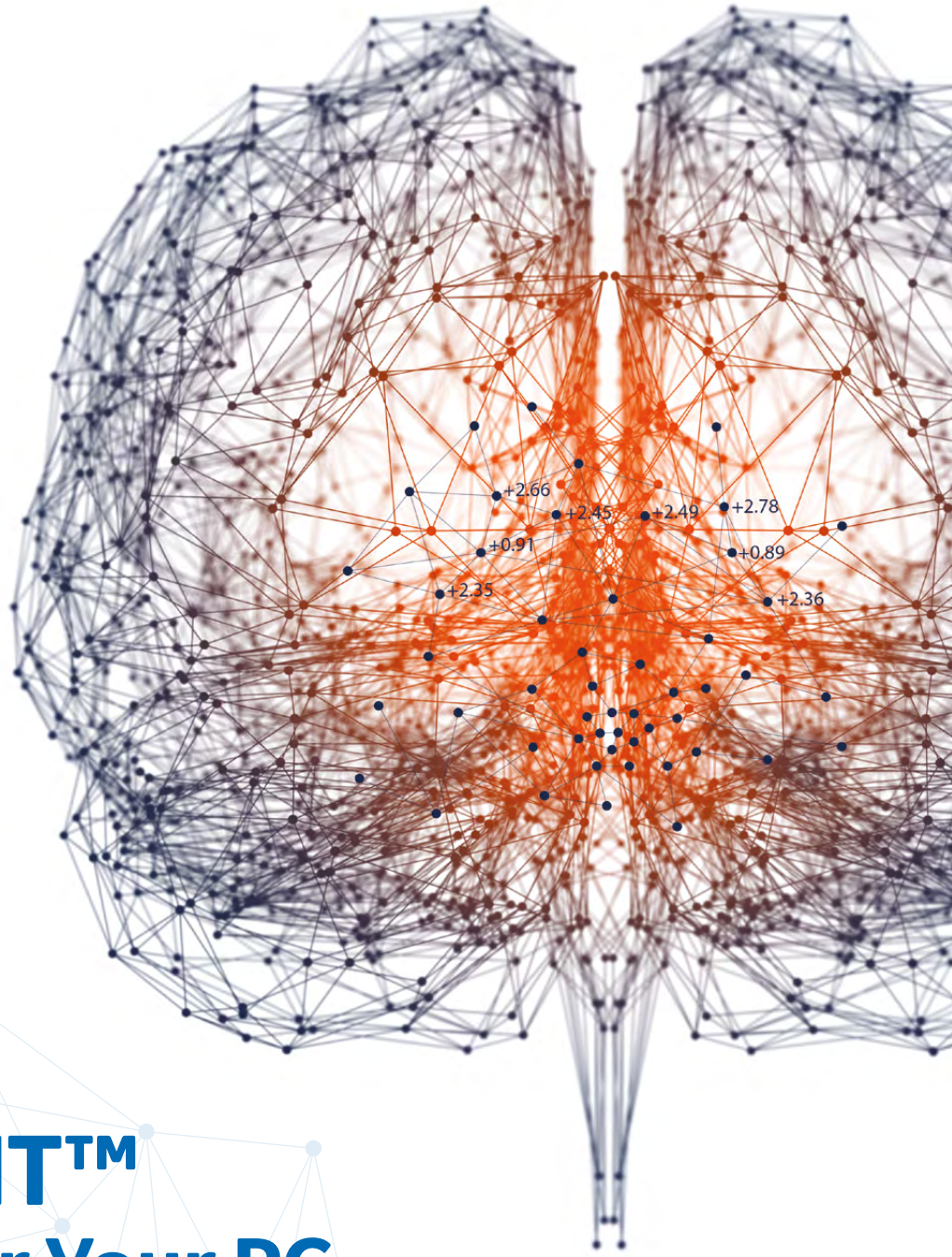
Quantitative Assessment of DaT SPECT Images*



DaTQUANT™ Software for Your PC

A quantitative analysis of striatal DaT images now at your fingertips

DaT: dopamine transporter
SPECT: single-photon emission computed tomography
*Other quantitative software is available for the evaluation of DaT SPECT images.
Not actual patient data. Values are for illustrative purposes only.

DaTQUANT™
DATA-DRIVEN ASSESSMENT

For the quantitative analysis of DaT SPECT images,

add DaTQUANT to your visual assessments

An aid in the assessment of the degree of functional DaT loss

- DaTQUANT assists in the detection and quantification of the loss of functional striatal dopaminergic neuron terminals, a loss correlated with Parkinson's disease[1]
- Quantitative analysis may help assess the extent and intensity of the striatal signal*

	Striatum Right SBR	Striatum Left SBR	Putamen Right SBR	Putamen Left SBR	Caudatus Right SBR	Caudatus Left SBR
Measured	+1.44	+1.61	+1.36	+1.64	+1.62	+1.55
Mean (±1 SD)	+1.82 (±0.33)	+1.78 (±0.35)	+1.72 (±0.33)	+1.68 (±0.35)	+2.03 (±0.40)	+2.00 (±0.42)
Deviation	-21%	-10%	-21%	-2%	-20%	-22%
Z-Score	-1.13	-0.50	-1.13	-0.12	-1.03	-1.06

Simple Advanced Ratios Asymmetry Customized

- Computes striatal binding ratios of the caudate and putamen VOIs, compared to background regions
- Quantification results are indicated for left and right sides of the striatum, as well as for ratios between caudate and putamen and asymmetry index

Automated processing ensures objective, accurate and repeatable results[1]

- Uses a predefined VOI template for automatic asymmetry measurements and putamen/caudate uptake ratios
  - Offers the option for manual adjustment of VOI placement
  - 95% of more than 200 images tested required no user intervention for VOI placement adjustment[2]
- Orients the image automatically for optimal visual assessment and removal of head-tilt artifacts

Indication

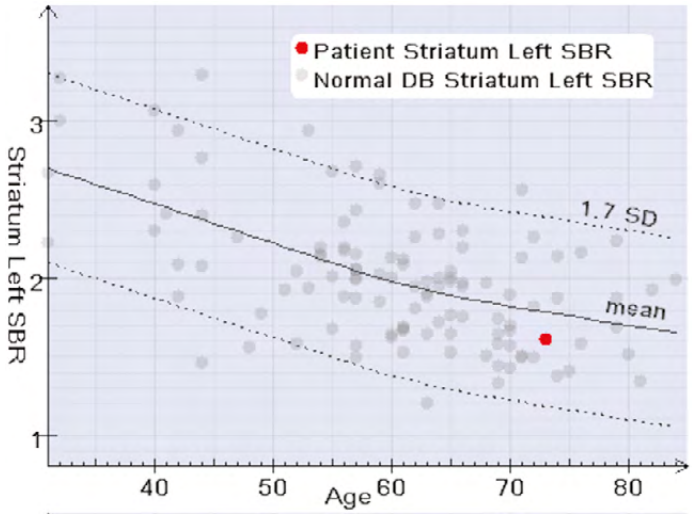
The DaTQUANT application enables visual evaluation and quantification of dopamine transporter SPECT images. DaTQUANT Normal Database enables quantification relative to normal age-matched population databases of dopamine transporter SPECT images.
This application may assist in detection of loss of functional dopaminergic neuron terminals in the striatum, which is correlated with Parkinson's disease.[1]

*Values are for illustrative purposes only.
DaT: dopamine transporter
SBR: striatal binding ratio
SPECT: single-photon emission computed tomography
VOI: volume of interest

Robust normal database for quantification comparison to normal, age-matched (DaT SPECT) images

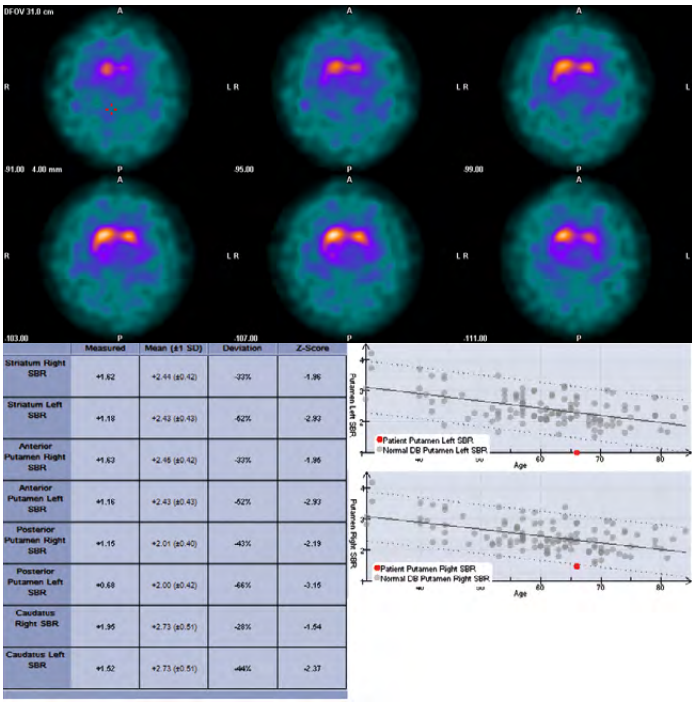
A Normal Database based on the Parkinson's Progression Markers Initiative, a comprehensive study of patients with Parkinson's disease[3]

- Generates a fast, visual depiction of quantification results compared to age-matched normal subjects*
- Normal Database has been validated for use with images acquired on a variety of multi-headed SPECT cameras
- Users have the ability to create a customised Normal Database that enables comparison to a site-specific normal population of images



A comprehensive report of dopamine transporter density for your referring physicians[1]

- Automatically generates a PDF which shows images and quantification results
  - Application screens can be saved as DICOM® files or PDFs and uploaded to a PACS/EMR
- Customisable visual and statistical analyses (options of images, uptake ratios, and/or visually plotted comparison to Normal Database)



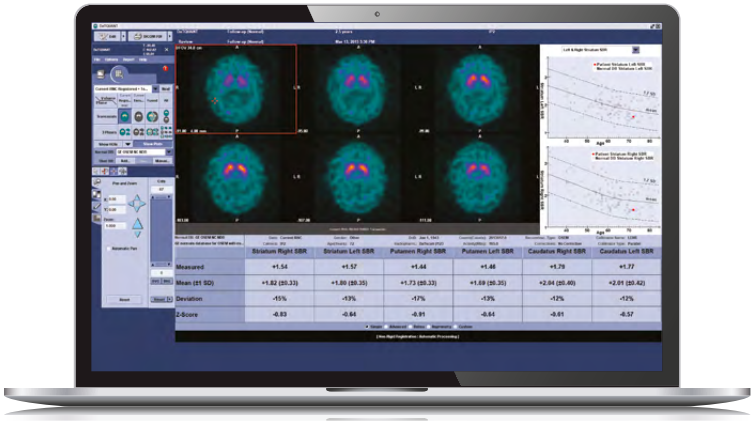
*Values are for illustrative purposes only.
DaT: dopamine transporter
DICOM: Digital Imaging and Communications in Medicine
EMR: Electronic Medical Record
PACS: picture archiving and communication system
PDF: portable document format
SPECT: single-photon emission computed tomography
SBR: striatal binding ratio

DaTQUANT™
DATA-DRIVEN ASSESSMENT

DaTQUANT software for your PC offers expanded accessibility and convenience

User friendly features

- Normal Database derived from the comprehensive Parkinson's Progression Markers Initiative
- Automatic processing to enable objective, accurate and repeatable results
- Example of normal and abnormal images
- Customizable single-click report
- Allows comparative analysis between baseline and follow-up scans



Minimum hardware requirements

- Display resolution 1280 x 768
- 1 GB RAM
- 1 GHz CPU Speed (high-speed Internet connected required)
- 2 GB disk space
- Windows® 7 or 10 (32 or 64- bit versions supported)

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All images are of participants from the PPMI* study.
PPMI: Parkinson's Progression Markers Initiative

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References:
1. Data on file, DaTQUANT Quantitative Software Data Sheet. GE Healthcare; 2020.
2. Internal verification testing data on file. GE Healthcare; 2015.
3. Parkinson's Progression Markers Initiative. PPMI-info.org. Accessed 6 May 2020.

DaTQUANT is CE marked

CE 0459