Effortless Centiloid, in one click!

BRIGHTONIX IMAGING

# BTXBrain

AI-based automated quantification platform for brain PET & SPECT

*Availability and clinical use may vary by country.*

# BTXBrain empowers clinicians and researchers with objective and standardized quantification, complementing visual assessment and improving diagnostic accuracy.

### Fast and fully automated processing

Quantification results ready in ~30 seconds with a single click.

### Highly reliable quantifications

Consistent and robust outcomes with minimized variability and enhanced accuracy for better diagnostic power.

### MR-less spatial normalization

Accurate template-based alignment via MRI-independent normalization process, reducing patient cost burden and simplifying workflow.

### Various tracers supported

Designed for use with various tracers, allowing broad applicability across studies, including amyloid, tau, FDG, dopamine transporter, and perfusion.

### User-friendly and easy analysis

Seamless end-to-end analysis with no manual intervention, ensuring a streamlined and intuitive user experience.

### Report generation

Ready-to-use reports, summarizing patient and study information along with key findings, for clear interpretation, facilitating referrals, and aiding patient consultations.

# Easy Workflow

01

## Upload

Upload PET or SPECT images
from local PC or PACS system

02

## Visualize

Check & view spatially normalized
image overlaid on T1 template

03

## Report

View quantification results
& export a report

# Comprehensive Reports, Instantly

Summary reports are automatically generated, combining quantitative results with intuitive visualizations for efficient review and sharing. Designed for clarity and efficiency, the reports support smooth communication and presentation of findings. This streamlined process enhances productivity in both clinical workflows and research applications.


**Features**

**Automatic generation** of ready-to-use reports

**Export options:** direct PACS integration, PDF download

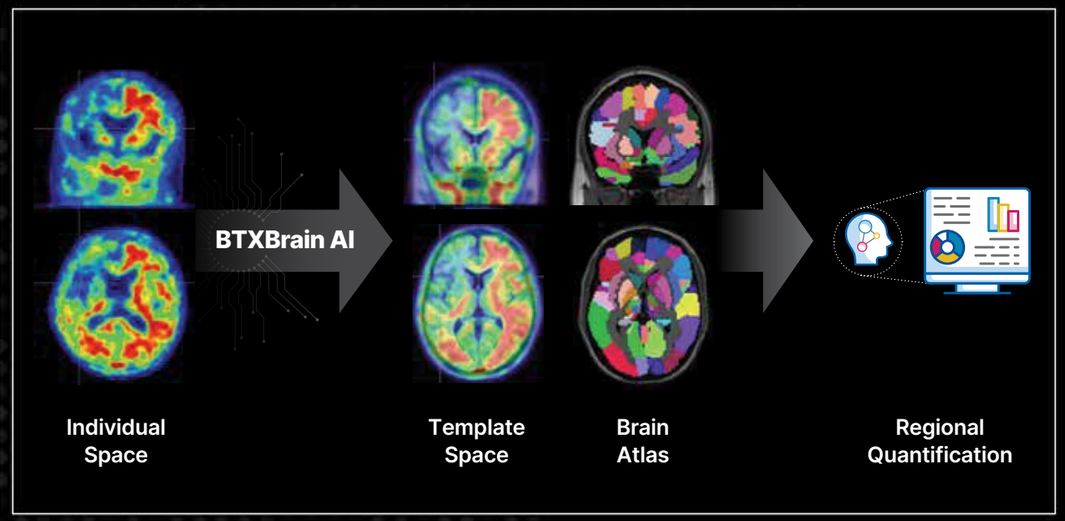
**Customizable inclusion** of patient and study information

**Download** of brain regional quantitative values in spreadsheet

**Various result formats:** plots, tables, slice views, and 3D renderings

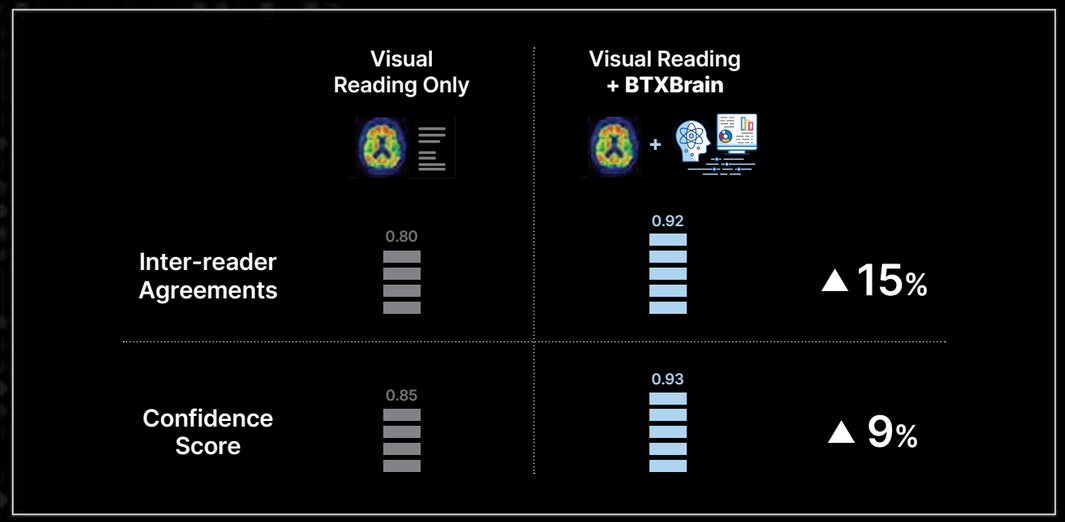
# Automated & Fast, but Robust

Brain images in individual space are seamlessly transformed into template space using advanced AI techniques, delivering rapid yet reliable regional quantification.




# Consistency. Confidence.

BTXBrain provides measurable improvements in inter-reader agreement and reader confidence. By combining quantitative data with expert judgement, physicians can achieve more reproducible interpretations and deliver higher-quality patient care with greater assurance.




*Conducted at seven medical centers.*

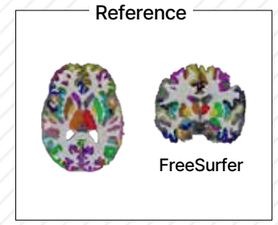


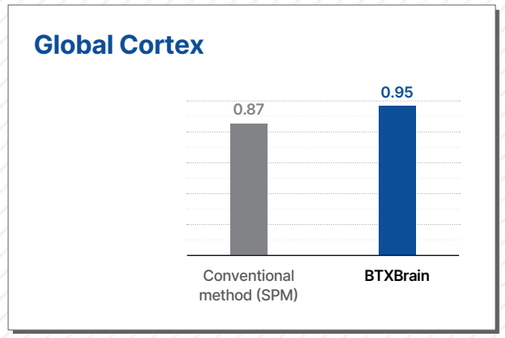
Publication: Kang (2023) JNM (modified)

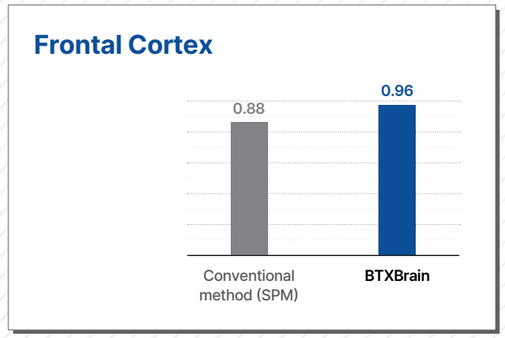


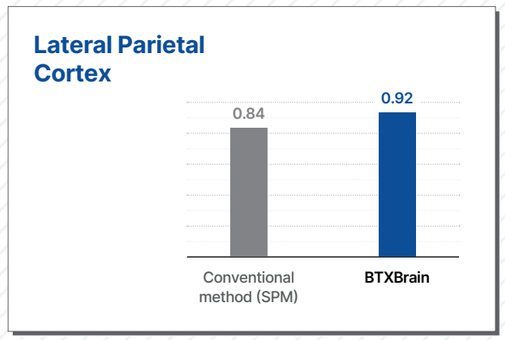
# Accuracy. Reliability.

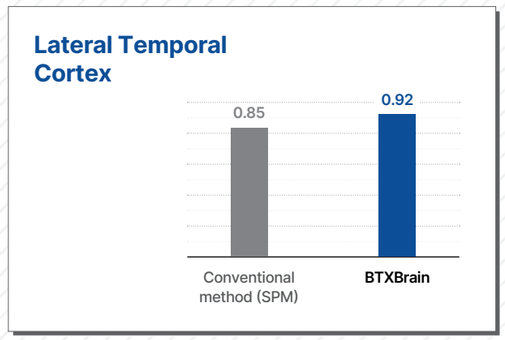
Using FreeSurfer-derived SUVR as the reference standard, BTXBrain demonstrated stronger correlations compared to conventional SPM-based methods. This validation highlights the enhanced precision and robustness of BTXBrain quantification.

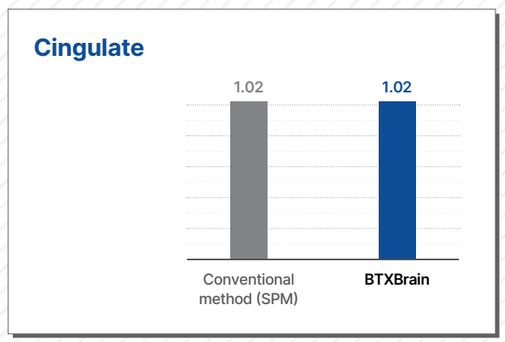


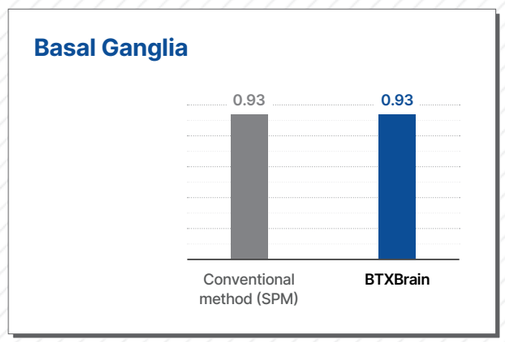




*Values are slopes of a regression line between true values and values obtained using SPM or BTXBrain, averaged over FBP, FBB, FMM results.*

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BTXBrain offers a comprehensive platform for quantitative analysis across multiple PET/SPECT tracers—including amyloid, tau, FDG, DAT, and perfusion. It uniquely integrates diverse tracer-specific modules into a single platform. Each module can be purchased separately, allowing users to build a tailored solution that meets their specific needs.

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