PETQuant™

Powered by NeuroQuant®

Provides brain segmentation that allows subregional tracer quantification in native patient brain space.

Completely Automatic

Offers fully automated and consistent results.

Fast, Thorough Quantitative Data

In about 10 minutes, PETQuant returns a complete report with color overlay and quantitative information for 46 brain structures.

Amyloid Deposition and Metabolism Analysis

Option available to license two separate reports that correspond to the PET tracer used.

Simplified and Easy-to-Read Reports

Color-coded graphical presentation simplifies quantitative reads.

Available Anytime, Anywhere

Secure, cloud-based system provides access anytime, from virtually anywhere.

CORTECHS Labs
Leading quantitative imaging.

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San Diego, CA 92121 USA

Please contact us at +1 (858) 459-9700
or info@cortechslabs.com
for more information

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PETQuant™

Quantification, Simplified.

Supports FDG and Florbetapir tracers

Automated & fast analysis of PET brain studies to quantify subregional tracer binding in native brain space

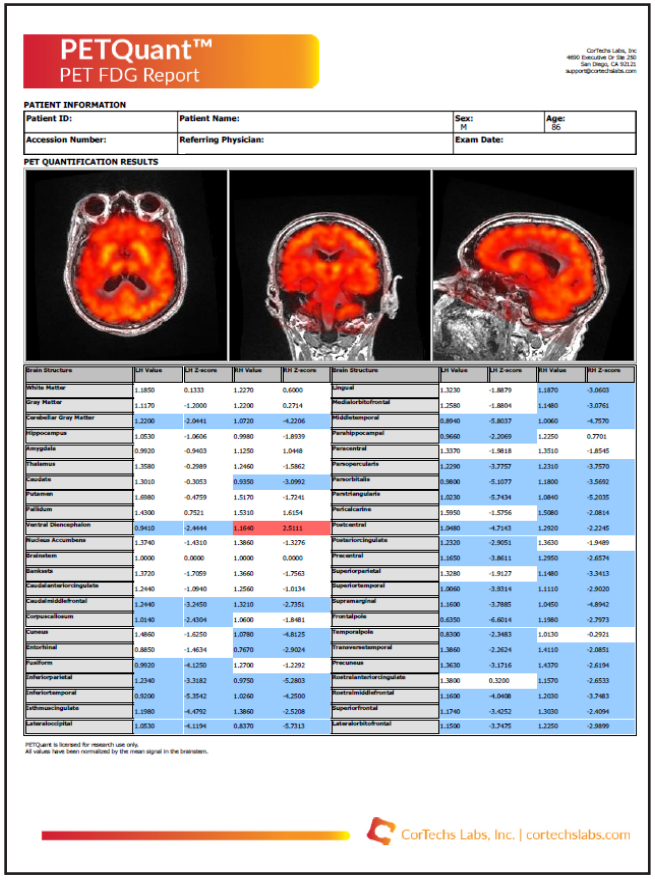
FOR RESEARCH USE ONLY

Expanding the use of NeuroQuant's trusted and proven technology, PETQuant provides an additional research tool in the evaluation of neurodegenerative dementias, such as Alzheimer's disease and frontotemporal dementia.

Thorough, Easy-to-Read & Fast Insight with PETQuant™

- ✓ Enables physicians and researchers to perform post-acquisition analyses of PET brain studies to quantify subregional tracer binding in native patient brain space
- ✓ Automatic quantification of PET tracer bindings is localized to brain structures identified by NeuroQuant 3D T1 MRI segmentation
- ✓ Choose between two tracers for metabolic (FDG) and amyloid-based (Florbetapir) analysis
- ✓ Visual and statistical (Z-score) comparisons of each normalized regional PET tracer value compared to normative population data
- ✓ Reports and additional output provided in standard DICOM format
- ✓ Compatible with GE, Philips and Siemens PET and PET/CT scanners
- ✓ Online, research use only software, requiring both a NeuroQuant compatible 3D T1 MRI scan and PETQuant compatible PET scan

Two Separate PETQuant Reports Correspond to the PET Tracer Used


PETQuant™
PET FDG Report

PATIENT INFORMATION

Patient ID:	Patient Name:	Sex: M	Age: 86
Accession Number:	Referring Physician:	Exam Date:	

PET QUANTIFICATION RESULTS

Brain Structure	LH Value	LH Z-score	RH Value	RH Z-score	Brain Structure	LH Value	LH Z-score	RH Value	RH Z-score
White Matter	1.1850	0.1333	1.2270	0.6000	Lingual	1.3230	-1.8879	1.1870	-3.0603
Gray Matter	1.1170	-1.2000	1.2200	0.2714	Medialorbitofrontal	1.2580	-1.8804	1.1480	-3.0761
Cerebellar Gray Matter	1.2200	-2.0441	1.0720	-4.2206	Middletemporal	0.8940	-5.8037	1.0060	-4.7570
Hippocampus	1.0530	-1.0606	0.9980	-1.8939	Parahippocampal	0.9660	-2.2069	1.2250	0.7701
Amygdala	0.9620	-0.9403	1.1250	1.0448	Paracentral	1.3370	-1.9818	1.3510	-1.8545
Thalamus	1.3580	-0.2989	1.2460	-1.5862	Parsopercularis	1.2290	-3.7757	1.2310	-3.7570
Caudate	1.3010	-0.3053	0.9350	-3.0992	Parsorbitalis	0.9800	-5.1077	1.1800	-3.5692
Putamen	1.6980	-0.4759	1.5170	-1.7241	Parstriangularis	1.0230	-5.7434	1.0840	-5.2035
Pallidum	1.4300	0.7521	1.5310	1.6154	Pericalcarine	1.5950	-1.5756	1.5080	-2.0814
Ventral Diencephalon	0.9410	-2.4444	1.1640	2.5111	Postcentral	1.9480	-4.7143	1.2920	-2.2245
Nucleus Accumbens	1.3740	-1.4310	1.3860	-1.3276	Posteriorcingulate	1.2320	-2.9051	1.3630	-1.9489
Brainstem	1.0000	0.0000	1.0000	0.0000	Precentral	1.1650	-3.8611	1.2950	-2.6574
Banksstс	1.3720	-1.7059	1.3660	-1.7563	Superiorparietal	1.3280	-1.9127	1.1480	-3.3413
Caudalanteriorcingulate	1.2440	-1.0940	1.2560	-1.0134	Superiortemporal	1.0060	-3.8314	1.1110	-2.9020
Caudalmiddlefrontal	1.2440	-3.2450	1.3210	-2.7351	Supramarginal	1.1690	-3.7885	1.0450	-4.8942
Corpuscallosum	1.0140	-2.4304	1.0600	-1.8481	Frontalpole	0.6350	-6.6014	1.1980	-2.7973
Cuneus	1.4860	-1.6250	1.0780	-4.8125	Temporalpole	0.8390	-2.3483	1.0130	-0.2921
Entorhinal	0.8850	-1.4634	0.7670	-2.9024	Transversetemporal	1.3860	-2.2624	1.4110	-2.0851
Fusiform	0.9620	-4.1250	1.2700	-1.2292	Precuneus	1.3630	-3.1716	1.4370	-2.6194
Inferiorparietal	1.2340	-3.3182	0.9750	-5.2803	Rostralanteriorcingulate	1.3800	0.3200	1.1570	-2.6533
Inferiortemporal	0.9200	-5.3542	1.0260	-4.2500	Rostralmiddlefrontal	1.1690	-4.0408	1.2030	-3.7483
Isthmuscingulate	1.1980	-4.4792	1.3860	-2.5208	Superiorfrontal	1.1740	-3.4252	1.3030	-2.4094
Lateraloccipital	1.0530	-4.1194	0.8370	-5.7313	Lateralorbitofrontal	1.1500	-3.7475	1.2250	-2.9899

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All values have been normalized by the mean signal in the brainstem.

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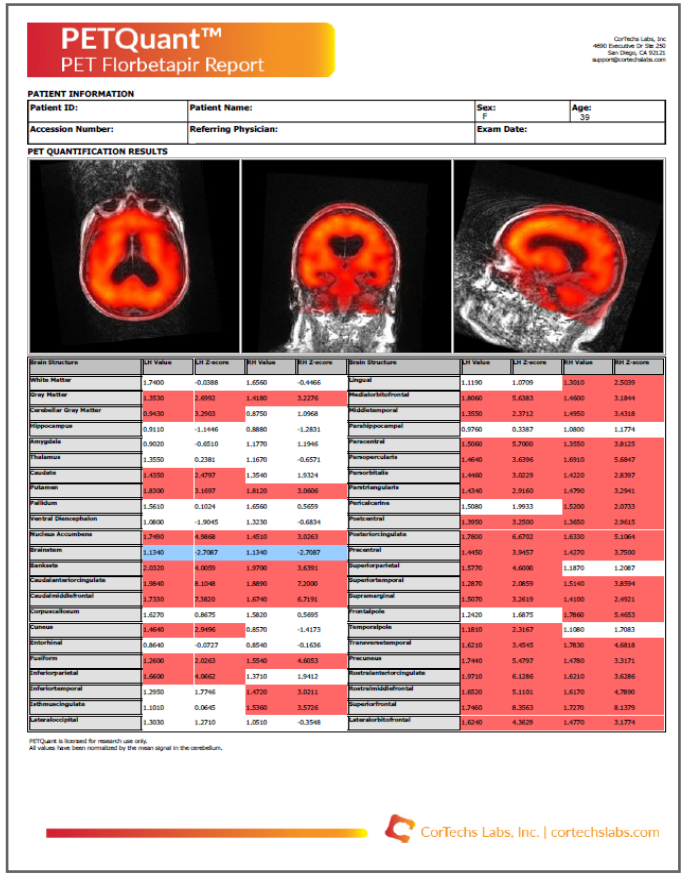
PETQuant FDG Report

PETQuant FDG report shows blue for reduced sub-regional (hypo-)metabolism and red for elevated (hyper-) metabolism compared to normative population data.


PETQuant™
PET Florbetapir Report

PATIENT INFORMATION

Patient ID:	Patient Name:	Sex: F	Age: 39
Accession Number:	Referring Physician:	Exam Date:	

PET QUANTIFICATION RESULTS

Brain Structure	LH Value	LH Z-score	RH Value	RH Z-score	Brain Structure	LH Value	LH Z-score	RH Value	RH Z-score
White Matter	1.7400	-0.0388	1.6560	-0.4466	Lingual	1.1190	1.0709	1.3010	2.5039
Gray Matter	1.3530	2.6992	1.4180	3.2276	Medialorbitofrontal	1.8060	5.6363	1.4600	3.1844
Cerebellar Gray Matter	0.9430	3.2903	0.8750	1.0968	Middletemporal	1.3550	2.3712	1.4950	3.4318
Hippocampus	0.9110	-1.1446	0.8880	-1.2831	Parahippocampal	0.9760	0.3387	1.0800	1.1774
Amygdala	0.9020	-0.6510	1.1770	1.1946	Paracentral	1.5060	5.7000	1.3550	3.8125
Thalamus	1.3550	0.2381	1.1670	-0.6571	Parsopercularis	1.4640	3.6396	1.6910	5.6847
Caudate	1.4350	2.4797	1.3540	1.9324	Parsorbitalis	1.4460	3.0229	1.4220	2.8397
Putamen	1.8300	3.1697	1.8120	3.6606	Parstriangularis	1.4340	2.9160	1.4790	3.2941
Pallidum	1.5610	0.1024	1.6560	0.5659	Pericalcarine	1.5080	1.9933	1.5200	2.0733
Ventral Diencephalon	1.0890	-1.9045	1.3230	-0.6834	Postcentral	1.3950	3.2500	1.3650	2.9615
Nucleus Accumbens	1.7490	4.9868	1.4510	3.0263	Posteriorcingulate	1.7800	6.6702	1.6330	5.1064
Brainstem	1.1340	-2.7087	1.1340	-2.7087	Precentral	1.4450	3.9457	1.4270	3.7500
Banksstс	2.0320	6.0059	1.9700	3.6391	Superiorparietal	1.5770	4.6000	1.1870	1.2087
Caudalanteriorcingulate	1.3840	8.1048	1.5890	7.2000	Superiortemporal	1.2870	2.0859	1.5140	3.8594
Caudalmiddlefrontal	1.7330	7.3820	1.6740	6.7191	Supramarginal	1.5070	3.2619	1.4100	2.4921
Corpuscallosum	1.6270	0.8675	1.5820	0.5695	Frontalpole	1.2420	1.6875	1.7860	5.4653
Cuneus	1.4640	2.9496	0.8570	-1.4173	Temporalpole	1.1810	2.3167	1.1080	1.7083
Entorhinal	0.8640	-0.0727	0.8540	-0.1636	Transversetemporal	1.6210	3.4545	1.7830	4.6818
Fusiform	1.2690	2.0243	1.5540	4.6053	Precuneus	1.7440	5.4797	1.4780	3.3171
Inferiorparietal	1.6600	4.0662	1.3710	1.9412	Rostralanteriorcingulate	1.9710	6.1286	1.6210	3.6286
Inferiortemporal	1.2950	1.7746	1.4720	3.0211	Rostralmiddlefrontal	1.6520	5.1101	1.6170	4.7890
Isthmuscingulate	1.1010	0.0645	1.5360	3.5726	Superiorfrontal	1.7460	8.3563	1.7270	8.1379
Lateraloccipital	1.3030	1.2710	1.0510	-0.3548	Lateralorbitofrontal	1.6240	4.3629	1.4770	3.1774

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All values have been normalized by the mean signal in the cerebellum.

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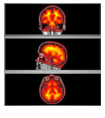
PETQuant Florbetapir Report

PETQuant Florbetapir report shows blue for less than average amyloid deposition and red for greater than average amyloid deposition compared to normative population data.

Additional PETQuant Output



Color-Blended Brain Segmentation
A color overlay of the 3D MR series enabling closer inspection on a PACS or other DICOM

Coronal Loop
Video illustrating a color-coded, segmented brain.

Exportable Raw Data
Data is easily exported to a CSV file for research needs.