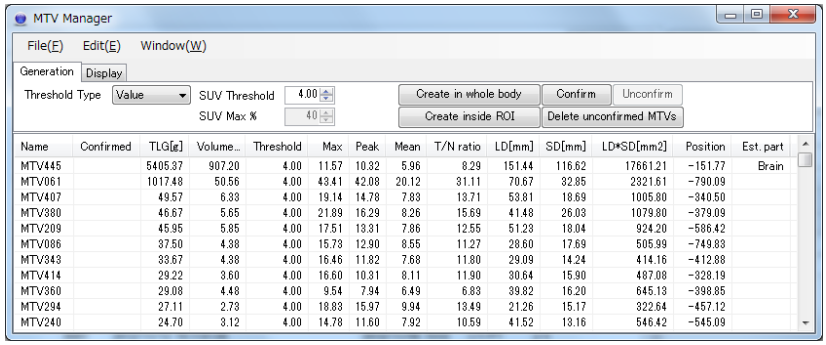
Quantitative PET Evaluation

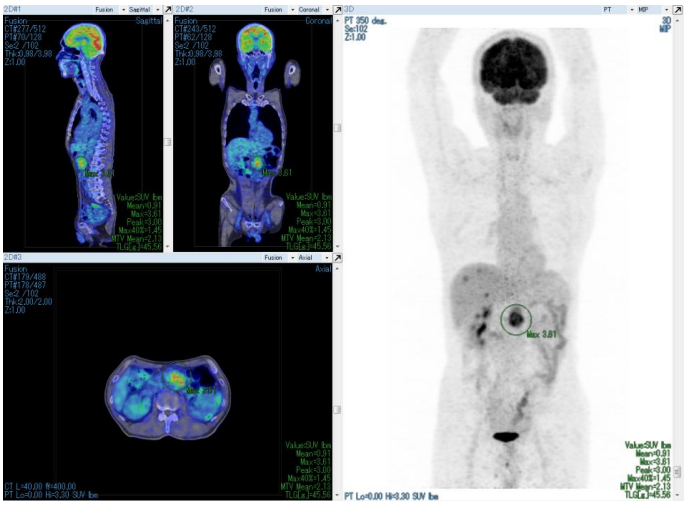
Semi-Automatic Creation of MTVs with Various Quantities and Volumetric ROI Analysis with the Histogram and Cumulative Histograms.

■MTV Manager

➢Semi-automatic MTV (Metabolic Tumor Volume) creation and listing up MTVs with quantities such as TLG , volume, SUV Max, SUV Peak, T/N ratio, Maximum diameter , and summing up these quantities.
➢Displays MTVs on MPI/VR views.
➢Outputs MTVs by CSV format.

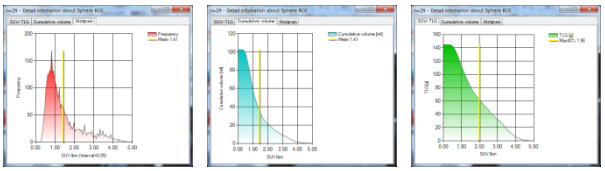


Name	Confirmed	TLG[g]	Volume...	Threshold	Max	Peak	Mean	T/N ratio	LD[mm]	SD[mm]	LD*SD[mm2]	Position	Est. part
MTV445		5405.37	907.20	4.00	11.57	10.32	5.96	8.29	151.44	116.62	17661.21	-151.77	Brain
MTV061		1017.48	50.56	4.00	43.41	42.08	20.12	31.11	70.67	32.85	2321.61	-790.09	
MTV407		49.57	6.33	4.00	19.14	14.78	7.83	13.71	53.81	18.69	1005.80	-340.50	
MTV380		46.67	5.65	4.00	21.89	16.29	8.26	15.69	41.48	26.03	1079.80	-379.09	
MTV209		45.95	5.85	4.00	17.51	13.31	7.86	12.55	51.23	18.04	924.20	-586.42	
MTV086		37.50	4.38	4.00	15.73	12.90	8.55	11.27	28.60	17.69	505.99	-749.83	
MTV343		33.67	4.38	4.00	16.46	11.82	7.68	11.80	29.09	14.24	414.16	-412.88	
MTV414		29.22	3.60	4.00	16.60	10.31	8.11	11.90	30.64	15.90	487.08	-328.19	
MTV360		29.08	4.48	4.00	9.54	7.94	6.49	6.83	39.82	16.20	645.13	-398.85	
MTV294		27.11	2.73	4.00	18.83	15.97	9.94	13.49	21.26	15.17	322.64	-457.12	
MTV240		24.70	3.12	4.00	14.78	11.60	7.92	10.59	41.52	13.16	546.42	-545.09	

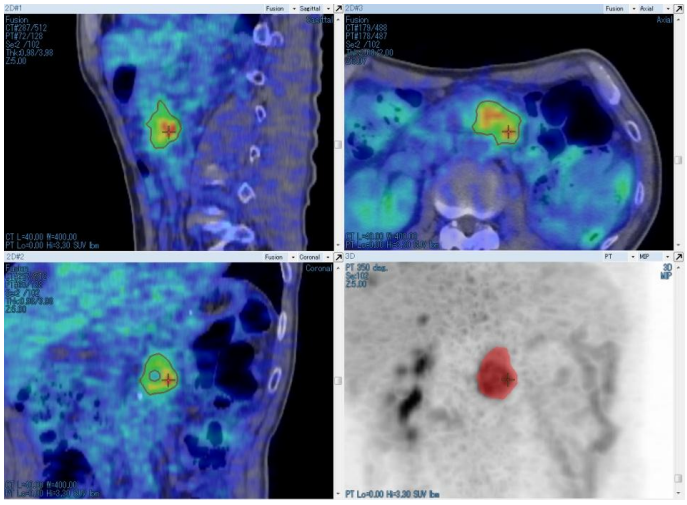


■Volumetric ROI Analysis

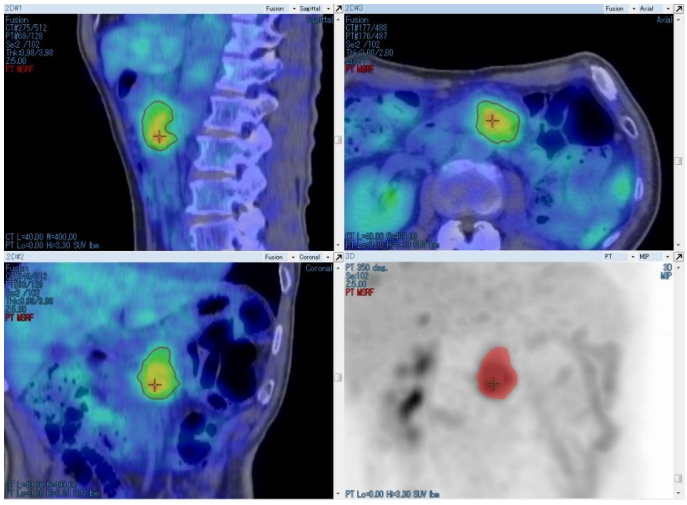
➢Displays SUV max, mean, TLG (Total Lesion Glycolysis) , Peak within a spherical ROI.
➢Displays SUV histogram and SUV-cumulative volume and SUV-TLG graph and outputs by CSV format.



Histogram SUL-Frequency | SUL-Cumulative volume | SUL-TLG



A MIP view and Slice views containing a voxel of SUL_{MAX}



PET images use MSR (Mean values of Spherical ROIs for peak value) Filter (sphere ROI volume=1cc)

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