

Metabolic parameters and % change in serial FDG PET/CT in patients in whom therapy was changed

Supplementary Table 1 (Patient 2 in the study, same as Table 4 and represent change for Fig 1) .

	1 st scan	2 nd scan	3 rd scan*	4 th scan
Global TLG	401.14	29.98 (-93%)	900.44 (+2903%)	No lesion seen
Global MV	197.61	13.5 (-93%)	407.44 (+2918%)	No lesion seen
Global SUVmean	2.03	2,22 (+9%)	2.21 (0%)	No lesion seen
Highest SUVmax	7.14	6.43 (-10%)	18.75 (+192%)	No lesion seen
Highest SUVpeak	4.47	4.61 (+3%)	12.35 (+168%)	No lesion seen

*- FDG PET/CT led to a switch in therapy

Supplementary Table 2 (Patient 4 in the study)

	1 st scan	2 nd scan	3 rd scan*	4 th scan*	5 th scan
Global TLG	253.1	103.86 (-59%)	167.28 (+61%)	218.16 (+30%)	No lesion seen
Global MV	68.56	30.2 (-56%)	41.74 (+38%)	104.65 (+151%)	No lesion seen
Global SUVmean	3.69	3.44 (-7%)	4.01 (+17%)	2.08 (+48%)	No lesion seen
Highest SUVmax	6.94	6.76 (-3%)	7.67 (+13%)	4.06 (-47%)	No lesion seen
Highest SUVpeak	5.21	4.62 (-11%)	5.11 (-11%)	3.12 (-64%)	No lesion seen

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Supplementary Table 3 (Patient 14 in the study)

	1 st scan	2 nd scan	3 rd scan*
Global TLG	155.2	97.68 (-37%)	422 (+332%)
Global MV	66.4	17.94 (-73%)	97.4 (+443%)
Global SUVmean	2.34	5.44 (+132%)	4.33 (-20%)
Highest SUVmax	7.97	6.59 (-17%)	7.89 (+20%)
Highest SUVpeak	5.92	4.32 (-27%)	6.55 (+34%)

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Supplementary Table 4 (Patient 22 in the study)

	1 st scan	2 nd scan*
Global TLG	118.26	279.64 (+137%)
Global MV	57.55	44.09 (24%)
Global SUVmean	2.05	6.34 (+209%)
Highest SUVmax	3.87	16.52 (+327%)
Highest SUVpeak	2.98	12.34 (+314%)

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Supplementary Table 5 (Patient 28 in the study same as patient represented by Fig 2 in article)

	1 st scan	2 nd scan*	3 rd scan
Global TLG	143.59	186.68(+30%)	44.85 (-76%)
Global MV	36.92	48.99(+33%)	8.61 (-82%)
Global SUVmean	3.89	3.81(-21%)	5.21 (+37%)
Highest SUVmax	7.89	9.84 (+25%)	9.04 (-8%)
Highest SUVpeak	6.44	6.91(+7%)	6.86 (-1%)

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Supplementary Table 6 (Patient 6 in the study)

	1 st scan	2 nd scan*	3 rd scan	4 th scan	5 th scan*	6 th scan
Global TLG	122,61	1578,73 (+1188%)	409,53 (-74%)	87,23 (-79%)	97,11 (+11%)	69,02 (-29%)
Global MV	85,65	437,7 (+411%)	176,39 (-60%)	35,78 (-78%)	45 (+26%)	39,33 (-13%)
Global SUVmean	1,43	3,6 (+152%)	2,32 (-36%)	2,44 (+5%)	2,16 (-10%)	1,75 (-19%)
Highest SUVmax	5.84	7,45 (+28%)	4,87 (-35%)	4,59 (-6%)	4,44 (-3%)	3,23 (-27%)
Highest SUVpeak	4.71	5.31 (13%)	3,82 (- 28%)	4,57 (+20%)	3,15 (31%)	2,88 (9%)

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Supplementary Table 7 (patient 19 in the study)

	1 st scan	2 nd scan	3 rd scan*	4 th scan*	5 th scan*	6 th scan	7 th scan	8 th scan	9 th scan
Global TLG	422,96	229,23 (-46%)	346,62 (+51%)	593,98 (+71%)	323,55 (-45%)	51,7 (-84%)	15,55 (70%)	7,67 (51%)	No lesion
Global MV	179,07	58,24 (-67%)	133,33 (+129%)	275,95 (+107%)	180,37 (-35%)	24,43 (-86%)	7,46 (69%)	5,51 (26%)	No lesion
Global SUVmean	2,36	3,94 (+67%)	2,6 (-34%)	2,15 (-17%)	1,79 (-17%)	2,12 (+18%)	2,08 (-2%)	1,39 (50%)	No lesion
Highest SUVmax	13,69	13,31 (-3%)	14,33 (+8%)	12,59 (-12%)	4,31 (-66%)	5,29 (+21%)	3,65 (31%)	2,09 (43%)	No lesion
Highest SUVpeak	9.87	10.11 (+2%)	9.01 (-11%)	8.78 (-3%)	3.68 (-58%)	3.71 (+1%)	2.41 (35%)	1.76 (27%)	No lesion

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Supplementary Table 8 (Patient 17 of the study)

	1 st scan	2 nd scan	3 rd scan*	4 th scan	5 th scan*	6 th scan	7 th scan	8 th scan
Global TLG	884,38	786,44 (-11%)	942,42 (+20%)	608,84 (-35%)	640,95 (+5%)	319,57 (-50%)	33,33 (-90%)	No lesion seen
Global MV	437,08	198,58 (-55%)	216,64 (+9%)	287,55 (+33%)	180,83 (-37%)	91,36 (-49%)	11,54 (-87%)	No lesion seen
Global SUVmean	2,02	3,96 (+96%)	4,35 (+10%)	2,12 (-51%)	3,54 (+67%)	3,5 (1%)	2,89 (-17%)	No lesion seen
Highest SUVmax	5,78	8,54 (+48%)	11,12 (+30%)	6,92 (-35%)	10,44 (+50%)	9,07 (-13%)	6,05 (-33%)	No lesion seen
Highest SUVpeak	5.08	7.67 (+51%)	9.54 (+24%)	5 (-48%)	7.27 (+45%)	6.47 (-11%)	4.3 (-49%)	No lesion seen

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Comment

In all eight patients, the highest SUVmax, SUVmean, and SUV mean markedly underestimated or overestimated the percentage change of disease burden as estimated by the global TLG. The changes in global MV gave the best approximation of the changes but in some cases showed marked differences. The changes in highest SUVmean gave the worst approximation of all the metabolic parameters.