

Supplemental Table 1: Basic statistics for the compartment variables and the influx (inf). var xx min+60:

dynamic data from 0-xx min and 60 minute SUV; var xx: dynamic data from 0-xx min.

variable	mean	median	minimum	maximum
vb 60 min	0.0971	0.0814	0.0000	0.5969
k1 60 min	0.3991	0.3565	0.0000	1.0000
k3 60 min	0.0680	0.0614	0.0000	0.3423
vb 30 min+60	0.0963	0.0800	0.0000	0.5842
k1 30 min+60	0.3984	0.3555	0.0000	1.0000
k3 30 min+60	0.0676	0.0614	0.0000	0.3399
vb 30 min	0.0961	0.0801	0.0000	0.5773
k1 30 min	0.3986	0.3545	0.0000	1.0000
k3 30 min	0.0669	0.0609	0.0000	0.3388
vb 25 min+60	0.0959	0.0792	0.0000	0.5974
k1 25 min+60	0.3983	0.3572	0.0000	1.0000
k3 25 min+60	0.0675	0.0616	0.0000	0.3371
vb 25 min	0.0962	0.0800	0.0000	0.5642
k1 25 min	0.3987	0.3540	0.0000	1.0000
k3 25 min	0.0667	0.0614	0.0000	0.3424
vb 20 min+60	0.0961	0.0790	0.0000	0.6220
k1 20 min+60	0.3987	0.3573	0.0000	1.0000
k3 20 min+60	0.0674	0.0615	0.0000	0.3364
vb 20 min	0.0975	0.0816	0.0000	0.5483
k1 20 min	0.3994	0.3563	0.0000	1.0000
k3 20 min	0.0654	0.0599	0.0000	0.3734
vb 16 min+60	0.0978	0.0819	0.0000	0.5525
k1 16 min+60	0.3980	0.3536	0.0000	1.0000
k3 16 min+60	0.0667	0.0613	0.0000	0.3625
vb 16 min	0.0962	0.0800	0.0000	0.5642
k1 16 min	0.3987	0.3540	0.0000	1.0000
k3 16 min	0.0667	0.0614	0.0000	0.3424
vb 10 min+60	0.0966	0.0788	0.0000	0.6549
k1 10 min+60	0.3983	0.3519	0.0000	1.0000
k3 10 min+60	0.0701	0.0667	0.0000	0.3515
vb 10 min	0.0973	0.0813	0.0000	0.5457
k1 10 min	0.3993	0.3529	0.0000	1.0000
k3 10 min	0.0644	0.0631	0.0000	0.3425
inf 60 min	0.0369	0.0269	0.0000	0.4993
inf 30 min+60	0.0355	0.0292	0.0000	0.3994
inf 30 min	0.0348	0.0285	0.0000	0.3581
inf 25 min+60	0.0349	0.0283	0.0000	0.3638
inf 25 min	0.0348	0.0286	0.0000	0.3604
inf 20 min+60	0.0357	0.0287	0.0000	0.3791
inf 20 min	0.0349	0.0286	0.0000	0.3573
inf 16 min+60	0.0351	0.0289	0.0000	0.3349
inf 16 min	0.0350	0.0282	0.0000	0.3619
inf 10 min+60	0.0348	0.0279	0.0000	0.3402
inf 10 min	0.0350	0.0286	0.0000	0.3310

Supplemental Table 2: Correlation coefficients and squares of the correlation coefficients for dPET (dynamic acquisition for 0-x minutes) and the combination of dPET and 60 minutes uptake data. The results of the full dynamic series for 60 minutes are taken for reference.

parameters	acquisition times (minutes)	dPET and 60 minute data (correlation)	dPET and 60 minute data (variance)	dPET (correlation)	dPET (variance)
inf	0-30	0.8753	0.7662	0.8638	0.7462
vb	0-30	0.9749	0.9504	0.9761	0.9528
k1	0-30	0.9987	0.9974	0.9982	0.9964
k3	0-30	0.9774	0.9553	0.9414	0.8862
inf	0-25	0.8656	0.7453	0.8635	0.75
vb	0-25	0.9824	0.9651	0.9745	0.9497
k1	0-25	0.9985	0.9970	0.9977	0.9954
k3	0-25	0.9678	0.9366	0.9196	0.8457
inf	0-20	0.8628	0.7444	0.8648	0.7479
vb	0-20	0.9876	0.9754	0.9803	0.9610
k1	0-20	0.9980	0.9960	0.9972	0.9944
k3	0-20	0.9561	0.9141	0.9054	0.8197
inf	0-16	0.8552	0.7314	0.8532	0.7280
vb	0-16	0.9830	0.9663	0.9745	0.9497
k1	0-16	0.9967	0.9934	0.9977	0.9954
k3	0-16	0.9029	0.8152	0.9196	0.8457
inf	0-10	0.8347	0.6967	0.8196	0.6717
vb	0-10	0.9695	0.9399	0.9787	0.9579
k1	0-10	0.9923	0.9847	0.9881	0.9763
k3	0-10	0.8620	0.7430	0.7489	0.5609