

## DADAM AND MADAM reference tissue compartment model fit

Simplified reference tissue model (SRTM) transformed into multilinear equations was fit to regional TACs with program lhsrtm 1.4.1. Binding potential (BP) values are relatively close to DVR-1 values received from reference input Logan plot with  $k'_2$  correction. Except for some region the results seemed unreliable, for example raphe (due to missing data), smar(?) and white matter. DADAM study with subject pagh seems to give negative BP values for relatively many regions, so in this case MADAM study seems more reliable.

```
lhsrtm 1.4.1 (c) 2002-2004 by Turku PET Centre
Date:      2004-11-19 09:37:51
Study:     FRGU3
Data file:  FDtis.dft
Reference region: cer All
Data range: 69 min (N=16)
Vb:       0 %
Data was not weighted.
```

Region		BP	SS
ac	.	All	0.0837 1.6411e+04
ang	.	All	0.0223 2.4274e+04
cau	.	All	0.1481 8.9521e+04
dlp	.	All	0.0130 4.5509e+04
gti	.	All	0.1052 1.4094e+04
gtm	.	All	0.0909 2.2676e+04
gts	.	All	0.0336 5.6506e+04
ins	.	All	0.1639 1.2213e+05
mfc	.	All	0.0031 5.5057e+04
occ	.	All	0.0310 3.9734e+04
pc	.	All	0.1068 2.3669e+04
put	.	All	0.2199 2.8013e+04
raphe	.	All	-1.000 0.0000e+00
smar	.	All	0.0162 2.1991e+04
tha	.	All	0.1642 1.1886e+05
wm	.	All	-0.109 1.9174e+06
str	.	All	0.2004 2.8057e+04
lpi	.	All	0.0171 2.4696e+04
gt	.	All	0.0806 3.5561e+04

```
lhsrtm 1.4.1 (c) 2002-2004 by Turku PET Centre
Date:      2004-11-19 09:37:55
Study:     PAGH3
Data file:  PDtis.dft
Reference region: cer All
Data range: 69 min (N=16)
Vb:       0 %
Data was not weighted.
```

Region		BP	SS
ac	.	All	0.0777 2.6363e+04
ang	.	All	-0.059 2.1854e+04
cau	.	All	0.1543 3.0104e+05
dlp	.	All	0.0159 1.6799e+04
gti	.	All	-0.010 9.3677e+04
gtm	.	All	0.0829 3.5285e+04

gts	.	All	0.1145	5.5537e+04
ins	.	All	0.1850	8.3373e+04
mfc	.	All	0.0277	7.0740e+03
occ	.	All	0.0058	8.7542e+04
pc	.	All	0.0133	7.2245e+04
put	.	All	0.1319	1.5143e+05
raphe	.	All	-1.000	0.0000e+00
smar	.	All	-0.011	3.9610e+04
tha	.	All	0.2946	1.7362e+05
wm	.	All	-0.079	1.4774e+06
str	.	All	0.1441	1.2617e+05
lpi	.	All	-0.030	2.8681e+04
gt	.	All	0.0729	2.1634e+04

lhsrtm 1.4.1 (c) 2002-2004 by Turku PET Centre

Date: 2004-11-19 09:37:58

Study: RE\_FRGU1

Data file: FMTis.dft

Reference region: cer All

Data range: 93 min (N=20)

Vb: 0 %

Data was not weighted.

Region			BP	SS
ac	.	All	0.2280	2.4279e+05
ang	.	All	0.0085	2.0364e+03
cau	.	All	0.7673	3.4753e+05
dlp	.	All	0.1134	1.2325e+04
gti	.	All	0.0594	2.8273e+04
gtm	.	All	0.1378	4.3120e+04

gts	.	All	0.1327	6.1034e+03
ins	.	All	0.3642	7.7817e+05
mfc	.	All	0.1132	2.0951e+04
occ	.	All	0.1333	1.3286e+04
pc	.	All	0.1066	4.2051e+05
put	.	All	0.7377	5.1330e+05
raphe	.	All	1.2947	2.1457e+07
smar	.	All	0.0030	4.5097e+03
tha	.	All	0.8982	7.3779e+05
wm	.	All	-0.310	1.2541e+06
str	.	All	0.7514	3.6748e+05
lpi	.	All	0.0042	1.7166e+03
gt	.	All	0.1130	2.2157e+04

lhsrtm 1.4.1 (c) 2002-2004 by Turku PET Centre

Date: 2004-11-19 09:38:01

Study: RE\_PAGH1

Data file: PMtis.dft

Reference region: cer All

Data range: 93 min (N=20)

Vb: 0 %

Data was not weighted.

Region			BP	SS
ac	.	All	0.3523	8.8528e+05
ang	.	All	0.0293	1.9541e+04
cau	.	All	0.8189	9.7688e+05
dlp	.	All	0.0888	5.3814e+04
gti	.	All	0.0959	1.4835e+05
gtm	.	All	0.0700	6.4020e+04
gts	.	All	0.1461	1.8560e+05
ins	.	All	0.3683	1.7523e+05
mfc	.	All	0.1957	2.0505e+05
occ	.	All	0.0896	1.2436e+05

pc	.	All	0.1825	3.8862e+05
put	.	All	0.9871	5.9107e+05
raphe	.	All	1.2004	2.1133e+07
smar	.	All	0.0385	2.5026e+04
tha	.	All	0.9853	2.4435e+06
wm	.	All	-0.303	3.5807e+06
str	.	All	0.9443	4.8450e+05
lpi	.	All	0.0340	1.7657e+04
gt	.	All	0.1118	6.6933e+04