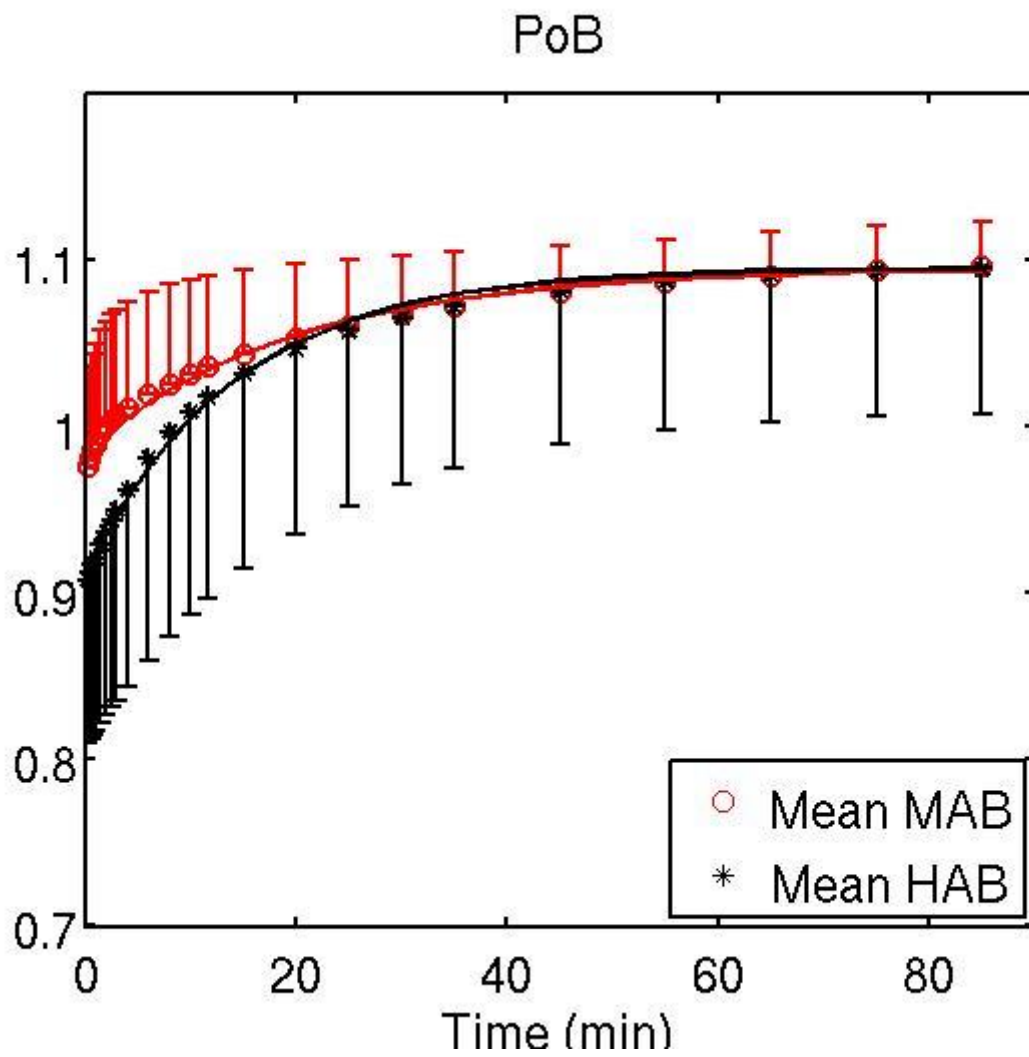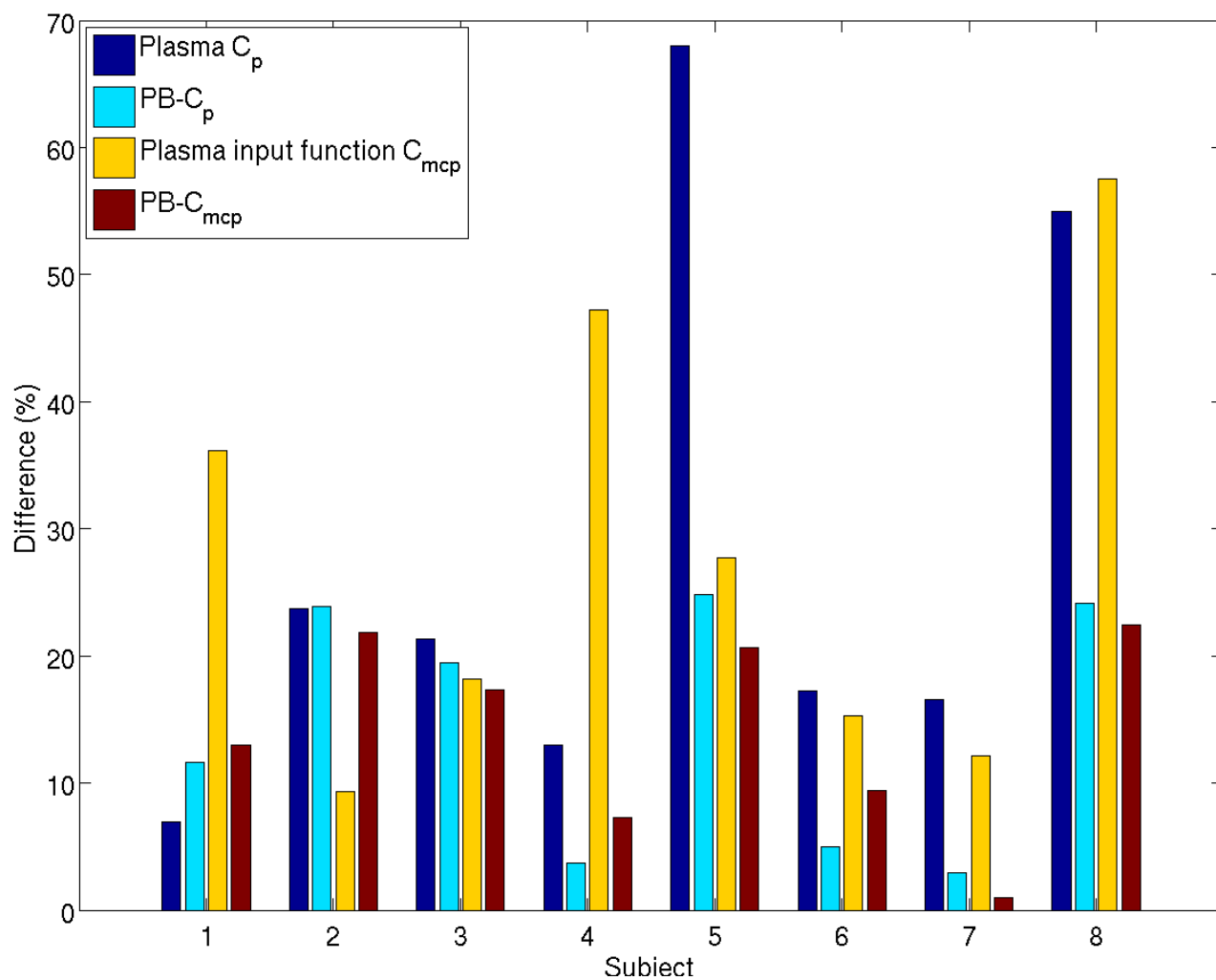Supplemental Figure 1 Plasma to whole-blood ratio of HAB (*N*=2x3) and MAB (*N*=2x5) with

immediate centrifugation

Supplemental Figure 2 Test-retest absolute percentage difference of radioligand concentration in plasma and metabolite-corrected plasma input function before applying the population-adjusted method: Plasma Cp and Plasma input function Cmcp; and after: Population-based Cp (PB-Cp) and PB-Cmcp

Supplemental Table 1 Regional distribution volume V_T (mL/cm^3) from 2TCM of the immediate centrifuged scans for high affinity binders (HAB) and mixed affinity binders (MAB)

ID / Regions	HAB Test	HAB Retest	HAB Test	HAB Retest	HAB Test	HAB Retest	MAB Test	MAB Retest	MAB Test	MAB Retest	MAB Test	MAB Retest	MAB Test	MAB Retest	MAB Test	MAB Retest
	11	11	15	15	16	16	9	9	10	10	12	12	13	13	14	14
Midbrain	7.5	9.1	7.1	6.5	10.2	13.4	6.3	5.2	5.1	5.1	6.1	5.3	5.0	5.0	4.1	4.3
Thalamus	8.3	9.5	7.4	7.3	8.2	11.7	3.1	4.2	3.5	3.5	4.4	4.7	4.6	4.9	5.0	5.5
Pons	8.5	6.4	8.8	8.1	8.2	12.0	3.3	4.1	5.3	5.8	4.7	4.4	4.5	6.8	4.6	4.6
Pallidostriatum	6.5	8.9	7.3	7.3	8.8	8.0	3.2	3.4	3.5	2.9	3.5	3.6	3.9	5.6	3.8	4.1
Hippocampus	5.6	7.4	6.0	5.8	7.1	7.5	3.1	3.1	2.9	3.5	3.7	4.0	6.2	5.7	4.1	4.4
Cerebellum	5.4	6.3	6.3	6.3	6.5	7.0	2.4	3.1	3.2	3.0	3.5	3.3	3.5	3.8	3.7	3.8
Neocortex	5.0	6.0	6.4	6.1	6.1	7.2	2.3	2.7	3.5	3.1	3.3	3.3	4.5	4.1	3.9	4.0

Supplemental Table 2 Regional distribution volume V_T (mL/cm^3) from 2TCM of the delayed centrifuged scans without population-based adjustment of the metabolite-corrected input function, but with parent fraction adjustment for high affinity binders (HAB) and mixed affinity binders (MAB)

ID	MAB		MAB		MAB		HAB		HAB		HAB		HAB		HAB	
	Test	Retest	Test	Retest	Test	Retest	Test	Retest	Test	Retest	Test	Retest	Test	Retest	Test	Retest
Regions	1	1	2	2	6	6	3	3	4	4	5	5	7	7	8	8
Midbrain	5.0	5.8	4.7	4.4	10.2	10.5	7.5	12.3	8.7	7.3	12.9	9.5	7.1	6.2	7.5	5.7
Thalamus	5.6	6.7	4.4	3.9	9.6	10.6	7.6	11.2	8.3	6.5	12.8	7.4	5.1	4.7	9.0	5.5
Pons	4.4	4.7	4.4	4.5	9.3	10.8	6.4	12.5	9.0	10.4	11.4	11.2	7.1	5.3	8.1	6.8
Pallidostriatum	3.5	4.6	4.3	3.9	7.5	8.6	6.1	11.6	7.3	5.2	9.4	8.2	4.8	4.1	5.3	4.9
Hippocampus	4.5	4.7	3.1	3.5	8.2	7.5	6.0	9.9	7.3	8.6	8.9	7.0	4.5	4.8	7.4	4.4
Cerebellum	3.6	3.8	2.9	2.9	6.7	7.1	5.7	9.5	6.9	5.0	8.3	6.0	4.7	4.0	5.3	3.9
Neocortex	3.3	3.8	3.0	2.7	6.5	7.1	5.0	8.0	6.5	4.6	8.1	5.8	4.6	4.0	5.4	3.6

Supplemental Table 3 Regional distribution volume V_T (mL/cm^3) from 2TCM of the delayed centrifuged scans with population-based adjustment of the metabolite-corrected input function for high affinity binders (HAB) and mixed affinity binders (MAB)

ID	MAB		MAB		MAB		HAB		HAB		HAB		HAB		HAB	
	Test	Retest	Test	Retest	Test	Retest	Test	Retest	Test	Retest	Test	Retest	Test	Retest	Test	Retest
Regions	1	1	2	2	6	6	3	3	4	4	5	5	7	7	8	8
Midbrain	4.7	5.4	5.4	4.9	6.9	5.4	15.4	17.6	7.8	8.8	11.1	10.7	5.7	4.8	6.3	5.8
Thalamus	4.5	4.7	5.1	4.6	6.6	5.3	9.5	8.7	7.7	6.0	13.9	12.5	4.1	4.2	7.2	6.0
Pons	3.7	3.2	5.0	5.1	5.8	5.4	8.8	12.2	7.8	7.6	11.2	12.4	5.8	5.6	7.4	7.6
Pallidostriatum	5.0	3.1	4.4	4.4	4.9	4.4	7.4	9.4	6.8	5.5	8.6	10.0	3.9	3.3	4.6	5.1
Hippocampus	5.0	3.2	4.2	4.4	5.1	3.6	7.4	7.1	5.8	5.6	7.3	6.8	4.4	4.2	5.3	4.2
Cerebellum	2.9	2.6	3.2	3.1	4.4	3.8	7.2	7.4	6.2	4.7	7.1	7.0	3.7	3.4	4.7	4.2
Neocortex	2.3	2.6	3.2	3.1	4.2	3.7	6.1	6.4	5.8	4.2	7.1	6.6	3.8	3.4	4.5	4.4