

Errata: Brain surface extraction from PET images with deformable model: Assessment using Monte Carlo simulator

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There was an error in the test-arrangement with the AIR combined with the exact anatomy in the case of Raclopride. This influences the Tanimoto-coefficient (TC) values that were given in Table II. (Only the row AIR in the case of Raclopride.) The correct TC values are provided in the Table below, and the error has been corrected in the forthcoming IEEE Transactions on Nuclear Science-paper *Assessment of Brain Surface Extraction from PET Images Using Monte Carlo Simulations*. The values that were erroneous are typed in **bold face** letters in the Table below, the values that are not in bold face are as in proceedings of IEEE medical imaging conference, 2003.

		FDG									
		image	1	2	3	4	5	6	7	mean	
full reference volume	DM-DSM	$\lambda = 0.2$	.906	.904	.903	.902	.903	.902	.901	.903
		$\lambda = 0.3$	.908	.902	.902	.899	.903	.899	.896	.901
		$\lambda = 0.5$	.893	.895	.895	.891	.895	.895	.891	.893
	AIR+BSE		.894	.813	.813	.820	.814	.812	.887	.836	
	AIR		.953	.948	.953	.952	.957	.963	.943	.953	
	Raclopride										
	DM-DSM	$\lambda = 0.3$	.743	.766	.763	.780	.778	.774	.776	.769
		$\lambda = 0.5$	.787	.804	.797	.804	.805	.817	.808	.803
		$\lambda = 0.7$	.836	.835	.812	.839	.839	.834	.831	.832
	AIR+BSE		.833	.834	.833	.832	.834	.834	.859	.837	
AIR		.998	.957	.957	.940	.956	.968	.969	.963		
ignoring csf	FDG										
	DM-DSM	$\lambda = 0.2$	.944	.939	.938	.941	.939	.938	.941	.940
		$\lambda = 0.3$	.945	.938	.938	.940	.940	.935	.936	.939
		$\lambda = 0.5$	.932	.931	.930	.932	.932	.932	.933	.931
	AIR+BSE		.927	.835	.834	.835	.834	.839	.934	.863	
	AIR		.966	.965	.961	.969	.964	.974	.959	.965	
	Raclopride										
	DM-DSM	$\lambda = 0.3$	.753	.780	.778	.796	.794	.790	.792	.783
		$\lambda = 0.5$	.796	.822	.818	.824	.825	.831	.824	.820
		$\lambda = 0.7$	.846	.844	.831	.845	.848	.839	.842	.842
AIR+BSE		.877	.872	.874	.874	.874	.877	.879	.875		
AIR		.999	.961	.961	.946	.960	.971	.972	.967		

TABLE I

TANIMOTO COEFFICIENTS BETWEEN AUTOMATICALLY EXTRACTED BRAIN VOLUMES AND THE REFERENCE BRAIN VOLUMES. THE BRAIN VOLUMES WERE EXTRACTED FROM THE SEVEN RACLOPRIDE AND FDG IMAGES (CF. TABLE I) BY DM-DSM WITH DIFFERENT VALUES FOR λ AND WITH IMAGE REGISTRATION BASED METHODS USING THE KNOWLEDGE OF PRECISE (ANATOMICAL) REFERENCE BRAIN VOLUME (AIR) AND USING THE BRAIN VOLUME EXTRACTED USING BSE (AIR + BSE).