Check for updates

OPEN

Author Correction: Quantitative biparametric analysis of hybrid ^{18}F-FET PET/MR-neuroimaging for differentiation between treatment response and recurrent glioma

Johannes Lohmeier ![ORCID], Georg Bohner, Eberhard Siebert, Winfried Brenner, Bernd Hamm & Marcus R. Makowski

Published online: 22 April 2020

Correction to: *Scientific Reports* https://doi.org/10.1038/s41598-019-50182-4, published online 10 October 2019

This Article contains errors.

In the Discussion section,

"Thus, highest accuracy (90%) was achieved when both DWI- and ^{18}F-FET-derived parameters were combined in a biparametric approach, which was superior to evaluating maximum target-to-background (TBRmax) ratio or mean apparent diffusion coefficient (ADCmean) alone."

should read:

"Thus, highest accuracy (88%) was achieved when both DWI- and ^{18}F-FET-derived parameters were combined in a biparametric approach, which was superior to evaluating maximum target-to-background (TBRmax) ratio or mean apparent diffusion coefficient (ADCmean) alone."

In the legend of Figure 3,

"Receiver Operating Characteristic (ROC) analysis. ROC curves for TBRmax (**a**), ADCmean (**b**) and biparametric analysis of DWI- and FET PET-derived parameters (c, ADCmean and TBRmax) were illustrated. Biparametric analysis (**c**) presented highest AUC (Area Under the Curve). Last panel (**d**) shows a comparison between ROC curves. p-value < 0.05 was considered statistically significant."

should read:

"Receiver Operating Characteristic (ROC) analysis. ROC curves for TBRmax (**a**), ADCmean (**b**) and biparametric analysis of DWI- and FET PET-derived parameters (c, ADCmean and TBRmax) were illustrated. Biparametric analysis (**c**) using optimal criterions based on Youden index (TBRmax > 2.1196 and ADCmean > 1253.76) presented highest AUC (Area Under the Curve). Last panel (**d**) shows a comparison between ROC curves. p-value < 0.05 was considered statistically significant."

Additionally, in Table 1 the values in the column entitled 'Positive/Negative predictive value' are incorrect, and the column entitled 'Positive/Negative Likelihood Ratio' was omitted.

The correct Table 1 appears below.

	Sensitivity/pecificity	Positive/Negative predictive value	Positive/Negative Likelihood Ratio	AUC
ADCmean + TBRmax	**97%/60%**	**89%/86%**	**2.42/0.05**	**0.90**
ADCmean > 1254	62%/100%	100%/45%	− /0.38	0.82
TBRmax > 2	81%/60%	87%/50%	2.03/0.31	0.81
Clinical rating	91%/44%	85%/57%	1.63/0.21	—

Table 1. Diagnostic measures of clinical assessment and quantitative PET/MRI analysis. Biparametric analysis using DWI- and FET PET-derived parameters presents improved diagnostic measures compared to clinical assessment.