


Erratum to: Improved repeatability of dynamic contrast-enhanced MRI using the complex MRI signal to derive arterial input functions: a test-retest study in prostate cancer patients (Magn Reson Med. 2019; 81: 3358–3369)

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The antilog for the within-subject coefficient of variation (wCV) of log-transformed data was performed incorrectly. This leads to an increase by a factor of about 2 in the numbers in abstract, results section, Figure 4, Tables 2 and 3. Although this affected all wCV values reported in the manuscript, the conclusion remains the same. The authors regret this mistake and apologize for any inconvenience this may have caused.

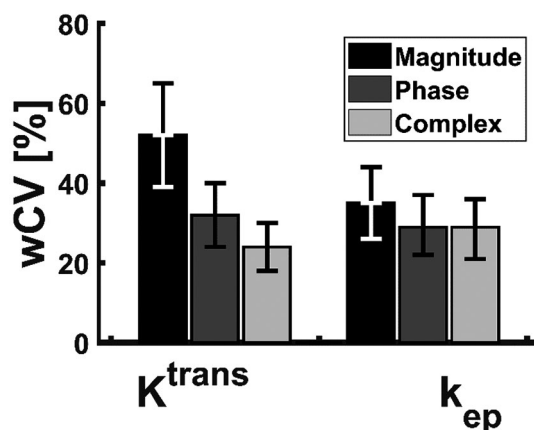


FIGURE 4 Bar plot of wCV values for K^{trans} and k_{ep} for the three AIF methods including 95% CI bars

TABLE 2 Median, range and wCV with 95% confidence interval of the AIF curve characteristics between the two consecutive exams

	Magnitude			Phase			Complex		
	Median (range)	wCV	(95% CI)	Median (range)	wCV	(95% CI)	Median (range)	wCV	(95% CI)
Peak height [mM]	0.8 (0.2-2.7)	28%	(19-37%)	8.3 (4.3-17.8)	27%	(18-36%)	7.3 (3.9-10.0)	15%	(10-20%)
FWHM [s]	15.2 (7.3-87.9)	26%	(18-35%)	9.2 (5.6-17.9)	16%	(11-21%)	9.5 (5.0-16.3)	17%	(12-23%)
AUC [mM * s]	71 (25-204)	26%	(18-35%)	479 (206-1080)	29%	(20-39%)	312 (206-754)	29%	(20-39%)
CI ₁₈₀	0.2 (0.1-0.6)	26%	(17-34%)	1.4 (0.4-3.1)	33%	(23-44%)	0.8 (0.5-2.3)	39%	(26-51%)
std tail [mM]	0.0 (0. -0.0)	20%	(13-26%)	0.4 (0.3-0.7)	27%	(18-35%)	0.1 (0.0-0.3)	31%	(21-41%)

TABLE 3 The wCV between left and right AIFs, per method (magnitude, phase and complex signal), with 95% confidence interval for all curve characteristics

N = 18	Magnitude		Phase		Complex	
	wCV	(95% CI)	wCV	(95% CI)	wCV	(95% CI)
Peak height [mM]	33%	(22-43%)	10%	(7-13%)	10%	(6-13%)
FWHM [s]	45%	(30-59%)	7%	(5-9%)	21%	(14-28%)
AUC ₃₀₀ [mM * s]	18%	(12-24%)	25%	(17-33%)	41%	(27-54%)
CI ₁₈₀	16%	(11-22%)	30%	(20-40%)	43%	(29-56%)
std tail [mM]	23%	(15-30%)	27%	(18-36%)	56%	(37-74%)

Abstract (changes in wCV values):

Results: The wCV for peak height and full-width at half maximum for AIF_{COMPLEX} (15% and 17%) indicated an improved repeatability compared to AIF_{MAGN} (28% and 26%) and AIF_{PHASE} (27% and 16%). This translated in lower wCV values for K^{trans} (24%) with AIF_{COMPLEX} in comparison to AIF_{MAGN} (52%) and AIF_{PHASE} (32%). For k_{ep} the wCV was 35% with AIF_{MAGN}, 29% with AIF_{PHASE}, and 29% with AIF_{COMPLEX}.

Results section, “3.2 AIF curve characteristics per method”, P6 (changes in numbers):

Without a B₁ correction, the peak height ratio for AIF_{MAGN} increased to 1.5, whereas the wCV increased from 33 to 43%.

Results section, “3. Tracer kinetic analysis”, P6 (changes in p-values):

The wCV for K^{trans} obtained with AIF_{MAGN} was significantly larger than for the other two methods (p = 0.0026 and < 0.001 for AIF_{PHASE} and AIF_{COMPLEX} respectively), however, for k_{ep} the wCV were not significantly larger (p = 0.59 and 0.63 for AIF_{PHASE} and AIF_{COMPLEX} respectively).

Discussion, P9 (the word “higher” becomes “similar”):

However, in general the reported wCV of K^{trans} in ROIs is similar than what we observe for K^{trans} obtained with AIF_{COMPLEX}: range between 12.5% to 57%.⁴⁶⁻⁵⁰

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