

CORRECTION

Correction: Ultrashort- T_2^* mapping at 7 tesla using an optimized pointwise encoding time reduction with radial acquisition (PETRA) sequence at standard and extended echo times

Carly A. Lockard, Bruce M. Damon, Hacene Serrai

In the Ultrashort- T_2^* mapping subsection of Materials and methods. There is an error in the second sentence of the first paragraph. The correct sentence is: The $MnCl_2$ phantom contained ten 5 mL centrifuge tubes having 0.03–30.50 mM $MnCl_2$ tetrahydrate, based on target ultrashort- T_2^* values estimated using reported relaxivity relationships at 3T, and 30 mM NaCl in deionized water.

In [Table 2](#), the column Phantom $MnCl_2$ solution concentration [mM] is incorrect. Please see the correct [Table 2](#) here.

In [Fig 3A](#) the values are incorrect. Please see the correct [Fig 3](#) here.

In [S2](#) and [S3 Tables](#), the column Phantom $MnCl_2$ solution concentration [mM] are incorrect. Please see the correct [S2](#) and [S3 Table](#) here:

Supporting information

S2 Table. Results based on monoexponential fitting with a noise term for ultrashort- T_2^* values, between-scan absolute and percent change, and ultrashort- T_2^* fit R^2 from two scans for the $MnCl_2$ phantom.

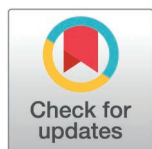
(DOCX)

S3 Table. Results based on log-linear least squares fitting for ultrashort- T_2^* values, between-scan absolute and percent change, and ultrashort- T_2^* fit R^2 from two scans for the $MnCl_2$ phantom.

(DOCX)

Reference

1. Lockard CA, Damon BM, Serrai H. Ultrashort- T_2^* mapping at 7 tesla using an optimized pointwise encoding time reduction with radial acquisition (PETRA) sequence at standard and extended echo times. PLoS One. 2025;20(4):e0310590. <https://doi.org/10.1371/journal.pone.0310590> PMID: [40245029](https://pubmed.ncbi.nlm.nih.gov/40245029/)



OPEN ACCESS

Citation: Lockard CA, Damon BM, Serrai H (2026) Correction: Ultrashort- T_2^* mapping at 7 tesla using an optimized pointwise encoding time reduction with radial acquisition (PETRA) sequence at standard and extended echo times. PLoS One 21(3): e0346005. <https://doi.org/10.1371/journal.pone.0346005>

Published: March 27, 2026

Copyright: © 2026 Lockard et al. This is an open access article distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Table 2. Calculated ultrashort- T_2^* values, between-scan absolute and percent change, and ultrashort- T_2^* fit R^2 from two scans for the $MnCl_2$ phantom. The median and interquartile range values are calculated for the sample of all voxels within each ROI.

Phantom $MnCl_2$ solution concentration [mM]	Scan 1 T_2^* median (interquartile range) [msec]	Scan 2 T_2^* median (interquartile range) [msec]	Between- scan T_2^* absolute change [msec]	Between- scan T_2^* percent change	Scan 1 mean R^2	Scan 2 mean R^2
30.50	0.31 (0.03)	0.31 (0.03)	0.00	1%	0.96	0.96
15.25	0.47 (0.04)	0.49 (0.05)	0.02	5%	0.98	0.95
10.16	0.78 (0.10)	0.78 (0.06)	0.00	0%	0.86	0.88
6.09	1.07 (0.20)	1.14 (0.20)	0.07	7%	0.97	0.95
4.06	3.55 (3.90)	2.03 (0.61)	1.52	43%	0.50	0.84
3.04	2.91 (2.87)	2.45 (0.68)	0.47	16%	0.54	0.73
2.02	5.12 (2.17)	6.61 (1.80)	1.49	29%	0.34	0.24
1.26	4.73 (0.73)	6.08 (2.19)	1.34	28%	0.37	0.30
1.21	3.96 (2.23)	4.32 (1.87)	0.36	9%	0.56	0.64
0.03	12.34 (9.61)	9.89 (10.40)	2.44	20%	0.08	0.11

<https://doi.org/10.1371/journal.pone.0346005.t002>

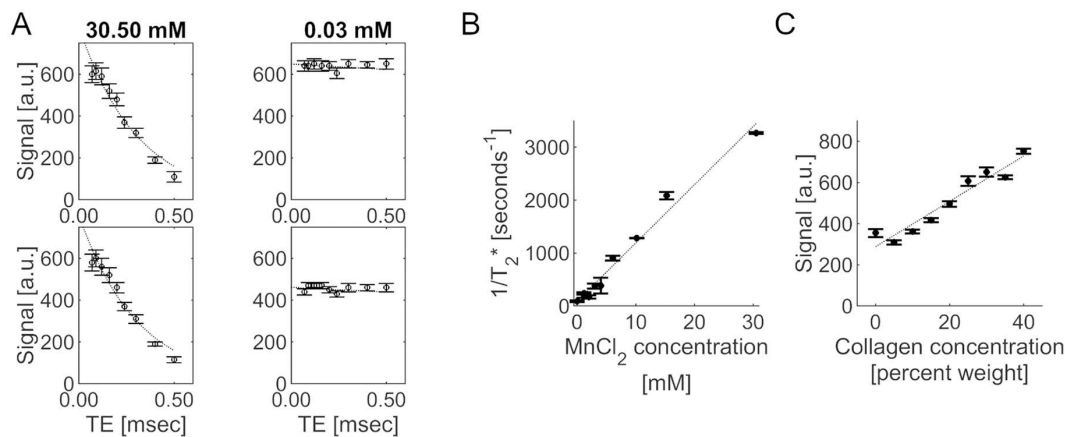


Fig 3. $MnCl_2$ phantom plots. Plots showing examples of median measured (round markers) and fitted signal (dashed line) based on estimated ultrashort- T_2^* signal versus TE for three $MnCl_2$ phantom solutions from two (top and bottom plots for each region) scans (a), the relationship between mean $1/T_2^*$ and $MnCl_2$ concentration, averaged over two scans (b), the relationship between mean signal and collagen concentration at TE = 0.07 msec, averaged over three scans (c). Error bars represent the interquartile range within each subregion for signal versus TE plots and the standard deviation between scans for the $1/T_2^*$ and signal versus concentration plots.

<https://doi.org/10.1371/journal.pone.0346005.g003>