CORRECTION

Correction to: Use of non-Gaussian time-of-flight kernels for image reconstruction of Monte Carlo simulated data of ultra-fast PET scanners

Nikos Efthimiou[1,2,3]* , Kris Thielemans[4], Elise Emond[4], Chris Cawthorne[5,6], Stephen J. Archibald[1] and Charalampos Tsoumpas[2,7]

Correction to: EJNMMI Phys (2020) 7:42
https://doi.org/10.1186/s40658-020-00309-8

Following publication of the original article [1], two typographical errors were found by the authors in formulas 6 of the main text and 19 in the appendix. The original and correct versions of the equations are given below:

Original formula 6: $F_D(d; \lambda) = \left(\frac{1-\text{sgn}(d)}{2} - \text{sgn}(d)(\cosh(\lambda(T - |d|)) - 1) \text{csch}\left(\frac{T\lambda}{2}\right)^2 \right) \Big/ 4.$

Correct formula 6: $F_D(d; \lambda) = \frac{1+\text{sgn}(d)}{2} - \text{sgn}(d)(\cosh(\lambda(T - |d|)) - 1) \text{csch}\left(\frac{T\lambda}{2}\right)^2 \Big/ 4.$

Original formula 19: $H = exp(2d\lambda)(E + F).$

Correct formula 19: $H = exp(2d\lambda)(-E + F).$

The original article [1] has been corrected.

Author details
[1] PET Research Centre, Faculty of Health Sciences, University of Hull, Cottingham Rd, Hull HU6 7RX, UK. [2] Biomedical Imaging Science Department, School of Medicine, University of Leeds, Leeds, UK. [3] Department of Radiology, Perelman School of Medicine, University of Pennsylvania, 156B John Morgan Building, 3620 Hamilton Walk, Philadelphia, PA 19104-6055, USA. [4] Institute of Nuclear Medicine, University College London, London, UK. [5] Nuclear Medicine and Molecular Imaging, Department of Imaging and Pathology, KU Leuven, Leuven, Belgium. [6] Molecular Small Animal Imaging Centre, KU Leuven, Leuven, Belgium. [7] Invicro, Hammersmith Hospital, London, UK.

Published online: 24 February 2022

Reference
1. Efthimiou N, Thielemans K, Emond E, et al. Use of non-Gaussian time-of-flight kernels for image reconstruction of Monte Carlo simulated data of ultra-fast PET scanners. EJNMMI Phys. 2020;7:42. https://doi.org/10.1186/s40658-020-00309-8.

Publisher's Note
Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.