CORRECTION

Correction: Acute Effects of Sugars and Artificial Sweeteners on Small Intestinal Sugar Transport: A Study Using CaCo-2 Cells As an *In Vitro* Model of the Human Enterocyte

Patrick O'Brien, Christopher Peter Corpe

Incorrect versions of Figs 3, 4 and 6 are included in the published paper.

In [Fig 3B and 3D](#), the Y-axis scale should be adjusted for clarity. Please see the corrected [Fig 3](#) here.

OPEN ACCESS

Citation: O'Brien P, Corpe CP (2017) Correction: Acute Effects of Sugars and Artificial Sweeteners on Small Intestinal Sugar Transport: A Study Using CaCo-2 Cells As an *In Vitro* Model of the Human Enterocyte. PLoS ONE 12(10): e0186016. <https://doi.org/10.1371/journal.pone.0186016>

Published: October 3, 2017

Copyright: © 2017 O'Brien, Corpe. This is an open access article distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Fig 3. Acute effects of D-Glucose and D-Fructose on carrier mediated [14 C] 10 mM D-Glucose and D-Fructose uptake into Caco-2/TC7 cells. Caco-2/TC7 cells grown for 21 days were incubated with 2.5, 25 and 75 mM D-Glucose or D-Fructose for 3hrs, washed in sugar free KBS, followed by 10 mins exposure to (a and c) [14 C] 10 mM D-Glucose and (b and d) [14 C] 10 mM D-Fructose. Cellular uptake of D-Glucose and D-Fructose was measured by radioactive scintillation spectrometry. Osmolarity was adjusted by adding Mannitol. Uptake is corrected for simple diffusion of 10 mM [14 C] L-Glucose. Data are expressed as nMoles D-Glucose or D-Fructose uptake/well/10min $\pm$ SD of $n = 4$ per condition. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$, ns = not significant.

<https://doi.org/10.1371/journal.pone.0186016.g001>

In Fig 4B, 10 mM AceK+Lact is not significant when compared to 10 mM AceK alone. In the published Fig 4B, the significance (*) is an incorrect comparison between 10 mM AceK +Lact and the control. Please see the corrected Fig 4 here.

Fig 4. Acute effects of the sweet taste inhibitor, lactisole and artificial sweeteners on carrier mediated glucose transport in Caco-2/TC7 cells. (a) Caco-2/TC7 cells grown for 21 days were incubated with 2.5, 25 and 75 mM D-Glucose for 3hrs in the presence or absence of 0.5 mM lactisole, washed three times with glucose free KBS, followed by 10 min exposure to [14 C] 10 mM D-Glucose. Osmolarity was adjusted by adding Mannitol. (b) Cells were incubated with 75 mM D-Glucose in the presence of 10 mM AcesulfameK (AceK) or Sucralose with the addition of lactisole at 0.5mM. Osmolarity was adjusted for by adding Mannitol. Cellular uptake of D-Glucose was measured by radioactive scintillation spectrometry. Uptake is corrected for simple diffusion of 10 mM [14 C] L-Glucose. Data are expressed as nMoles D-Glucose uptake/well/10min $\pm$ SD of n = 4 per condition. ns = not significant.

<https://doi.org/10.1371/journal.pone.0186016.g002>

In Fig 6C and 6D, the x-axis is labelled as HFCS but should be labeled as D-Glu + D-Fru. The y-axis scale should also be adjusted for clarity. Please see the corrected Fig 6 here.

Fig 6. Acute effects of Sucrose, an equimolar mix of free glucose and fructose, and lactisole on carrier mediated [^{14}C] 10 mM D-Glucose and D-Fructose uptake into Caco-2/TC7 cells. Caco-2/TC7 cells grown for 21 days were incubated with 2.5 and 75 mM Sucrose or a 50/50 mix of free D-Glucose/D-Fructose in the presence or absence of 0.5 mM lactisole for 3hrs, washed in sugar free KBS. (a) and (c) are cellular uptake of [^{14}C] 10 mM D-Glucose for 10 mins (b) and (d) are cellular uptake of [^{14}C] 10 mM D-Fructose measured by radioactive scintillation spectrometry. Osmolarity was adjusted by adding Mannitol. Uptake is corrected for simple diffusion of 10 mM [^{14}C] L-Glucose. Data are expressed as nMoles sugar uptake/well/10min $\pm$ SD of $n = 4$ per condition. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$, ns = not significant.

<https://doi.org/10.1371/journal.pone.0186016.g003>

Reference

1. O'Brien P, Corpe CP (2016) Acute Effects of Sugars and Artificial Sweeteners on Small Intestinal Sugar Transport: A Study Using CaCo-2 Cells As an *In Vitro* Model of the Human Enterocyte. *PLoS ONE* 11 (12): e0167785. doi:[10.1371/journal.pone.0167785](https://doi.org/10.1371/journal.pone.0167785) PMID: [27992462](https://pubmed.ncbi.nlm.nih.gov/27992462/)