



CORRECTION

Correction: Exploration of surgical blood pressure management and expected motor recovery in individuals with traumatic spinal cord injury

Reza Ehsanian · Jenny Haefeli · Nhung Quach · Jacob Kosarchuk · Dolores Torres · Ellen D. Stuck · Jessica Endo · James D. Crew · Benjamin Dirlikov · Jacqueline C. Bresnahan · Michael S. Beattie · Adam R. Ferguson · Stephen L. McKenna

Published online: 23 June 2020
© The Author(s) 2020. This article is published with open access

Correction to: *Spinal Cord* 58:377–386
<https://doi.org/10.1038/s41393-019-0370-5>
published online 24 October 2019

Following publication of this article, an error was identified in the data structure for the analysis “Relationship between changes in ISNCSCI motor score versus time spent within optimal versus nonoptimal MAP range”. The published article has now been corrected, and the changes are detailed below:

(1) In the “Abstract”:

“...($F[1, 23] = 5.07, r^2 = 0.181, p = 0.034$). ISNCSCI motor scores increased **0.039** for each minute of exposure to the MAP range 70–94 mmHg during the operative procedure.”

was changed to:

“...($F[1, 23] = 4.65, r^2 = 0.168, p = 0.042$). ISNCSCI motor scores increased **0.036** for each minute of exposure to the MAP range 70–94 mmHg during the operative procedure.”

(2) In the “Methods”, under the heading “Automated filter and mean arterial pressure binning”:

“Additionally, as part of a secondary analysis, the data were divided into time spent in hypotensive (MAP < 70), normal/optimal (MAP between 70 and 94), and hypertensive (MAP > 94) states.”

was changed to:

“Additionally, as part of a secondary analysis, the data were divided into time spent in hypotensive (MAP 50–69), normal/optimal (MAP 70–94), and hypertensive (MAP 95–104) states.”

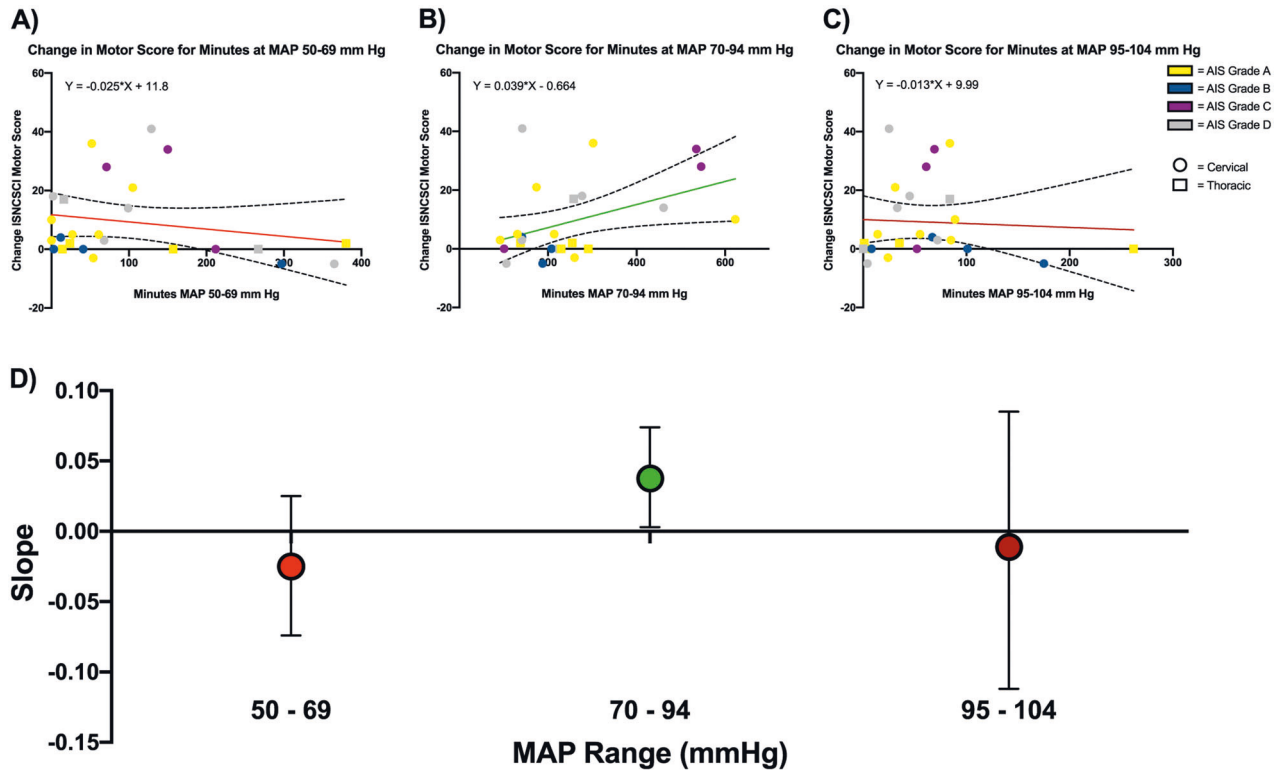
(3) In the “Results”, under the heading “Relationship between changes in ISNCSCI motor score versus time spent within optimal versus nonoptimal MAP range”:

“The beta coefficient for the linear regression modeling change in motor score versus time exposure to 70–94 mmHg MAP range was **0.039 (CI: 0.003–0.076, $p = 0.034$)** (Fig. 2b), representing a positive association. Beta coefficients for both the hypotension (50–69 mmHg; beta: -0.025 , **CI: -0.074 to 0.025 , $p = 0.311$**) and the hypertension (95–104 mmHg; beta: -0.013 , **CI: -0.112 to 0.085 , $p = 0.782$**) MAP ranges showed a negative association but did not reach statistical significance. The intercept for the normotensive model was -0.664 , representing the starting ISNCSCI motor score change before time exposure to the 70–94 mmHg MAP range. The intercepts for the hypotension and hypertension models were **11.8 and 9.99** ISNCSCI motor points, respectively.”

was changed to:

“The beta coefficient for the linear regression modeling change in motor score versus time exposure to 70–94 mmHg MAP range was **0.036 (CI: 0.001–0.071, $p = 0.042$)** (Fig. 2b), representing a positive association. Beta coefficients for both the hypotension (50–69 mmHg; beta: -0.025 , **CI: -0.077 to 0.027 , $p = 0.322$**) and the hypertension (95–104 mmHg; beta: -0.039 , **CI: -0.301 to 0.224 , $p = 0.764$**) MAP ranges showed a negative association but did not reach statistical significance. The intercept for the normotensive model was -0.880 , representing the starting ISNCSCI motor score change before time exposure to the 70–94 mmHg MAP range. The intercepts for the hypotension and hypertension models were **11.7 and 10.0** ISNCSCI motor points, respectively.”

(4) Fig. 2 has also been corrected. The original, incorrect version of Fig. 2 is displayed below:



(5) Finally, the supplementary table file has been updated to include the corrected version of table S3. The original, incorrect version is displayed below:

Table S3 Linear Regressions of ISNCSCI Motor Score vs. Minutes within each MAP range during surgery.

| MAP Range (mm Hg) | Equation | 95% CI | | Y-intercept | | X-intercept | | Goodness of Fit | | Is slope significantly non-zero? | |
|-------------------|-------------------------|-----------------|---------------|------------------|-------------|-------------|-------|-----------------|----------|----------------------------------|----------------------|
| | | Slope | | Y-intercept | X-intercept | R Square | Sy.X | F | DFn, Dfd | P Value | Deviation from Zero? |
| 50-69 | $Y = -0.025 * X + 11.8$ | -0.074 to 0.025 | 4.23 to 19.3 | 193 to +infinity | 0.045 | 13.4 | 1.07 | 1, 23 | 0.311 | Not Significant | |
| 70-94 | $Y = 0.039 * X - 0.664$ | 0.003 to 0.076 | -11.1 to 9.74 | -265 to 168 | 0.181 | 12.4 | 5.08 | 1, 23 | 0.034 | Significant | |
| 95-104 | $Y = -0.013 * X + 9.99$ | -0.112 to 0.086 | 1.86 to 18.1 | 122 to +infinity | 0.003 | 13.7 | 0.078 | 1, 23 | 0.782 | Not Significant | |

Open Access This article is licensed under a Creative Commons Attribution 4.0 International License, which permits use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license, and indicate if changes were made. The images or other third party material in this article are included in the article's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the article's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder. To view a copy of this license, visit <http://creativecommons.org/licenses/by/4.0/>.