## Correction

## Correction: 4D-Analysis of Left Ventricular Heart Cycle Using Procrustes Motion Analysis

## The PLOS ONE Staff

The legends for Figures 3 and 4 are switched. The legend that appears under Figure 3 should be under Figure 4 and the legend that appears under Figure 4 should be under Figure 3. The figure images appear in the correct order. Please see Figures 3 and 4 with their correct legends below.

The title of Figure 9 contains an error. " 11 trajectories" should read " 19 trajectories." Please see Figure 9 with the correct title and legend below.

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Figure 3. The test for the assumption of eligibility of Euclidean tangent plane. a) all reciprocal pairs of Riemannian Procrustes distances of the entire datasets ( 341 shapes for 19 individuals) plotted against the corresponding Euclidean Distances. Largest possible Procrustes d $=1.570796$. Regression through the origin for distance in tangent space, Y , regressed onto Procrustes distance (in radians). Slope: 0.998 Correlation (uncentered): 1.00 root MS error: 0.000242 . b) Riemannian distances from the consensus, i.e. the Grand Mean, are plotted against the Euclidean ones. Y, regressed onto Procrustes distance (in radians). Slope: 0.998 Correlation (uncentered): 0.999 ; root MS error: 0.000020 .
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Figure 4. Pictorial view of the Parallel Transport of tangent spaces. Our procedure is aimed at comparing motion trajectories' shapes once removed the effect of inter-individual differences. In this picture it is shown the parallel transport of two different euclidean planes on the tangent plane of the Grand Mean. See Figure 4 to test the eligibility of a common euclidean plane.
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Figure 9. PCA shape space for the 19 interpolated trajectories after the linear shift. a) PC1/PC2 scatterplot, b) PC1/PC3 scatterplot. doi:10.1371/journal.pone.0086896.g009

## Reference

1. Piras P, Evangelista A, Gabriele S, Nardinocchi P, Teresi L, et al. (2014) 4DAnalysis of Left Ventricular Heart Cycle Using Procrustes Motion Analysis. PLoS ONE 9(1): e86896. doi:10.1371/journal.pone. 0086896

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