

Supplementary Information

Therapeutic Potential of Human Umbilical Cord-Derived Mesenchymal Stem Cells in Recovering from Murine Pulmonary Emphysema under Cigarette Smoke

Exposure

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Table S1. Expression of cell surface markers on hUC-MSCs.

The cell surface markers on hUC-MSCs were determined by flow cytometry. The hUC-MSCs positively expressed the CD44, CD73, CD90, and CD105, whereas negative expression of CD11b, CD19, CD34, CD45, and HLA-DR.

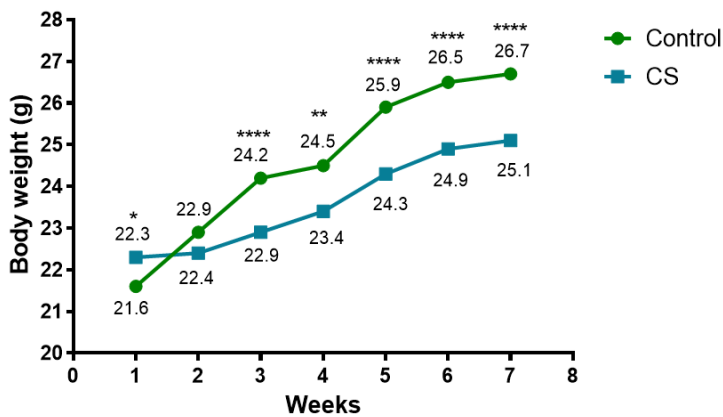
Positive Markers	Positive cells (%)
CD44	100
CD73	100
CD90	98.9
CD105	99.8
Negative Markers	
CD11b/CD19/CD34/CD45/HLA-DR	0.41

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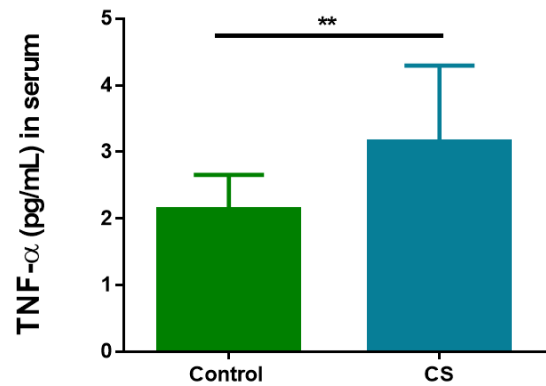
**Figure S1. The change of body weight and serum level of TNF- α with CS exposure before hUC-
MSC administration.**

(A) The body weight was significantly decreased during the CS exposure. (B) A significant increase in TNF- α in the serum of mice after CS exposure for 4 months. The results were analyzed by an unpaired *t*-test. *n* = 8~10 per group. **p* < 0.05, ***p* < 0.01, *****p* < 0.0001.

(A)



(B)



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Figure S2. The body weight difference before and after 4-week hUC-MSC administration. n = 8~10 per group.

