



Figure S1. Viability of human MSCs after thawing. (A) Viability of freshly thawed human MSCs was tested on ice in different time points. No significant difference was observed in viability up to 180 minutes after thawing. However, there was a significant drop in their viability 240 minutes. (B) Viability of freshly thawed MSCs kept at room temperature showed no significant difference up to 180 minutes after thawing, but a significant drop in their viability at 240 minutes. (C) Two different concentrations of cryopreserved MSCs ($1 \times 10^7/\text{ml}$ and $2 \times 10^7/\text{ml}$) were thawed and passed through 27- and 30-gauge needles to assess differences in viability. No significant differences in viability was observed between two groups.

Boxes show the interquartile (25%–75%) range, whiskers encompass the range (minimum–maximum), and horizontal lines represent the mean. Data shown are representative of three independent experiments. G: gauge; RT: room temperature. * $P < 0.001$