

Extracorporeal Shock Wave Therapy Salvaged the Critical Limb Ischemia in B6 Mice through Upregulating the Cell Proliferation Signaling and Angiogenesis

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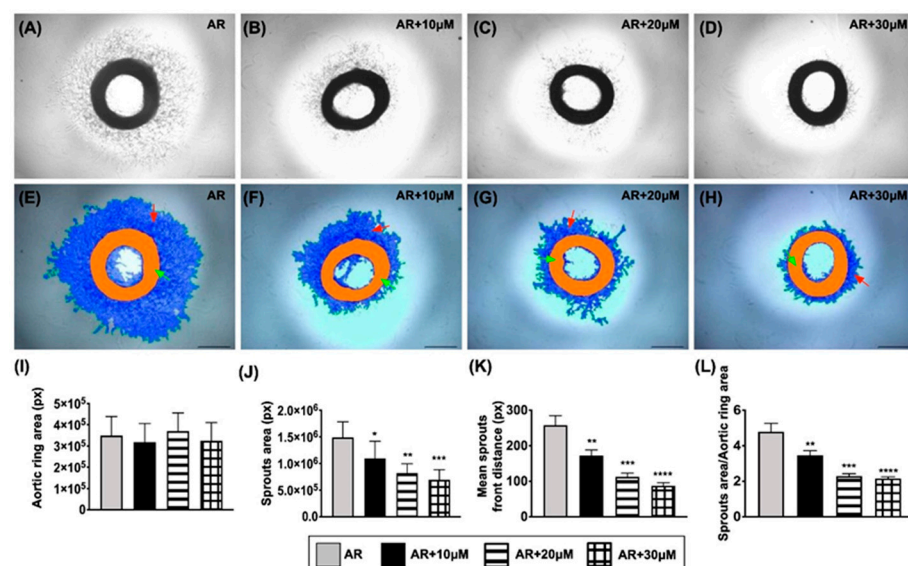


Figure S1. Ex vivo study of rat aortic ring assay for assessing the impact of Avastin on suppressing angiogenesis (A–H) Illustrating the results of 5-day ex vivo culture of aortic ring (AR) for determining the angiogenesis in groups 1 (A,B), 2 (C,D), 3 (E,F) and 4 (G,H), respectively. Scale bars in right lower corner represent 200 µm. The orange color (green arrows) indicated AR area. The blue color (red arrows) indicated sprout area. (I) Analytical result of AR area, $p > 0.5$. (J) Analytical result of sprout area, * for $p < 0.05$, ** for $p < 0.01$, *** for $p < 0.001$. (K) Analytical result of Mean sprouts front distance, ** for $p < 0.01$, *** for $p < 0.001$, **** for $p < 0.0001$. (L) Analytical result of the ratio of sprout area to AR area, ** for $p < 0.01$, *** for $p < 0.001$, **** for $p < 0.0001$. Wimasis image analysis (Wimasis GmbH: Limited Liability Company) was utilized for quantitative analysis ($n = 4$ for each group).

group 1 = Aortic ring (AR) (i.e., sham-control); group 2 = AR + Avastin (10 μ M); group 3 = AR + Avastin (20 μ M); group 4 = AR + Avastin (30 μ M).

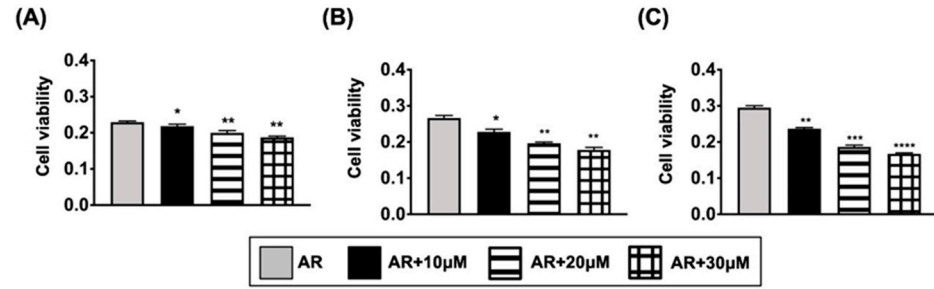


Figure S2. MTT assay for determining the cell viability (A–C) By 24h (A), 48h (B) and 72h (C), cell culturing, the cell viability was significantly progressively reduced from groups 1 to 4, * for $p < 0.05$, ** for $p < 0.01$, *** for $p < 0.001$, **** for $p < 0.0001$ ($n = 4$ for each group). MTT = [3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide]. group 1 = Aortic ring (AR) (i.e., sham-control); group 2 = AR + Avastin (10 μ M); group 3 = AR + Avastin (20 μ M); group 4 = AR + Avastin (30 μ M).