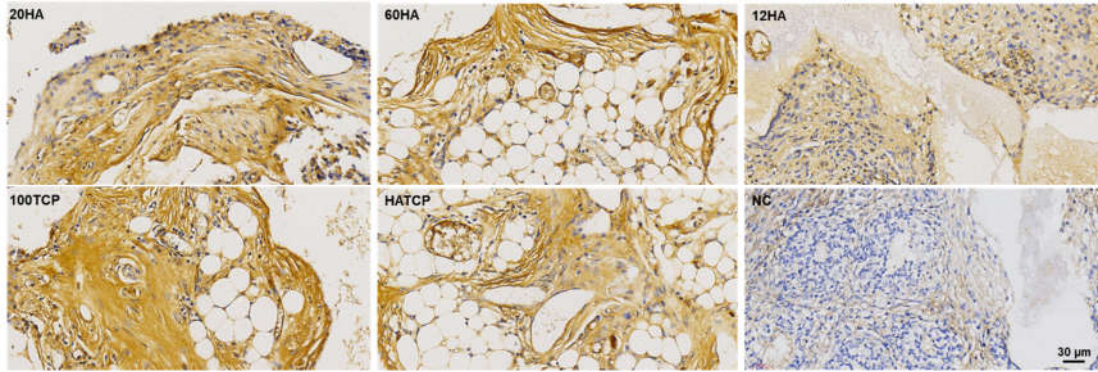


## Supplementary materials



**Supplementary Figure S1:** IHC of VEGF in the five groups. The specimens of groups 20HA, 60HA, 12HA, 100TCP and HATCP were incubated with a mouse monoclonal antibody against vascular endothelial growth factor (VEGF, 1:1000, Abcam) and a horseradish peroxidase (HRP)-labeled secondary antibody (1:1000, Abcam). Finally, they were developed with 3,3-diaminobenzidine (DAB) and counterstained with hematoxylin. The results showed VEGF was positive expressed in new blood vessels. NC: negative control; bar: 30  $\mu$ m.