

Supporting Information for

**Nano Functionalized Stent Mediated Local Heat Treatment for
the Suppression of Stent Induced Tissue Hyperplasia**

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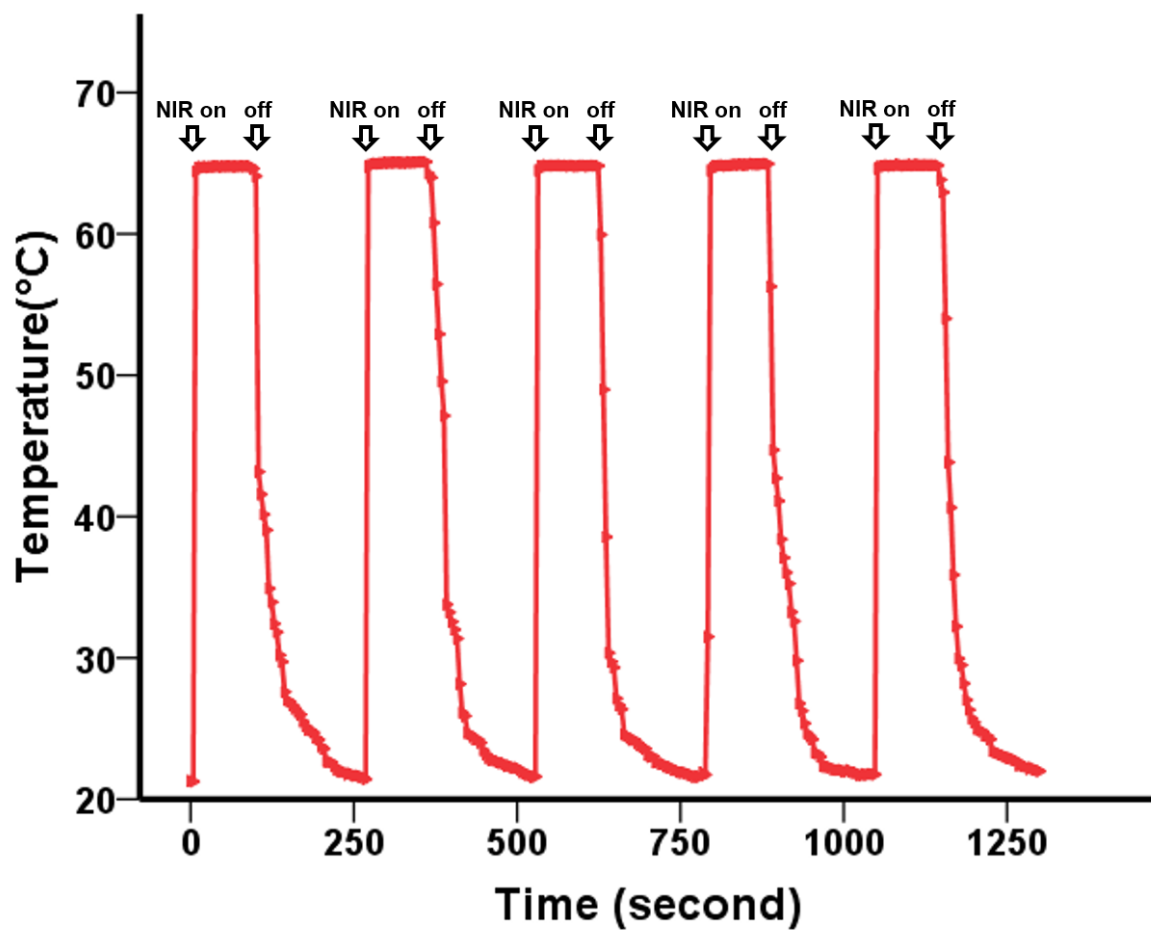


Figure S1. Measurement of temperature change of BGNP-coated SEMS by repeated laser irradiation. The temperature change of BGNP-coated SEMS was measured during five repeated irradiations with an 808-nm laser at 1.91 W/cm².

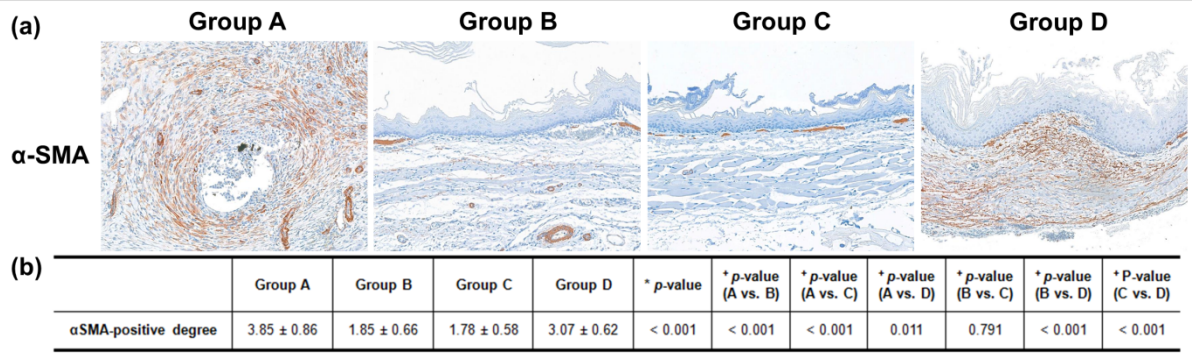


Figure S2. Immunohistochemical analysis for re-epithelialization after BGNP-coated SEMS local heating. (a) Alpha-smooth muscle actin (α SMA) expression was significantly decreased in groups B and C compared to group A (magnification $\times 20$). α SMA expression was statistically greater in group D than in groups B and C. (b) A table of α SMA expression of each group. Note: Data are presented as mean \pm standard deviation. * Kruskal–Wallis test, + Mann–Whitney U test.