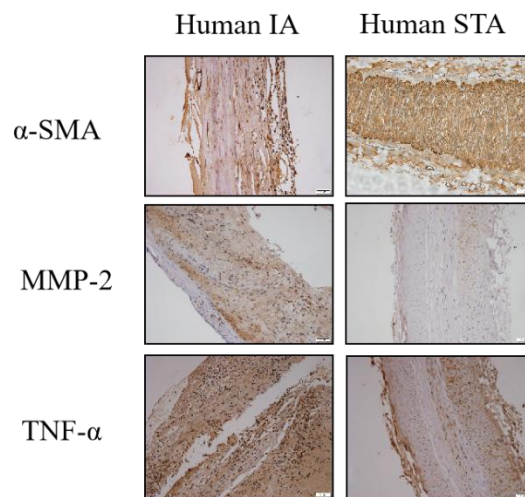


1 Supporting information

2 **Table S1.** Incidence of IA in each group according to statistical analysis

Groups	Grade 0	Grade 1	Grade 2	Grade 3	Kruskal-Wallis test
Sham	10	0	0	0	$P \leq 0.001(H =$
IA	0	1	6	3	22.26)
IA + erlotinib	3	5	2	0	

3



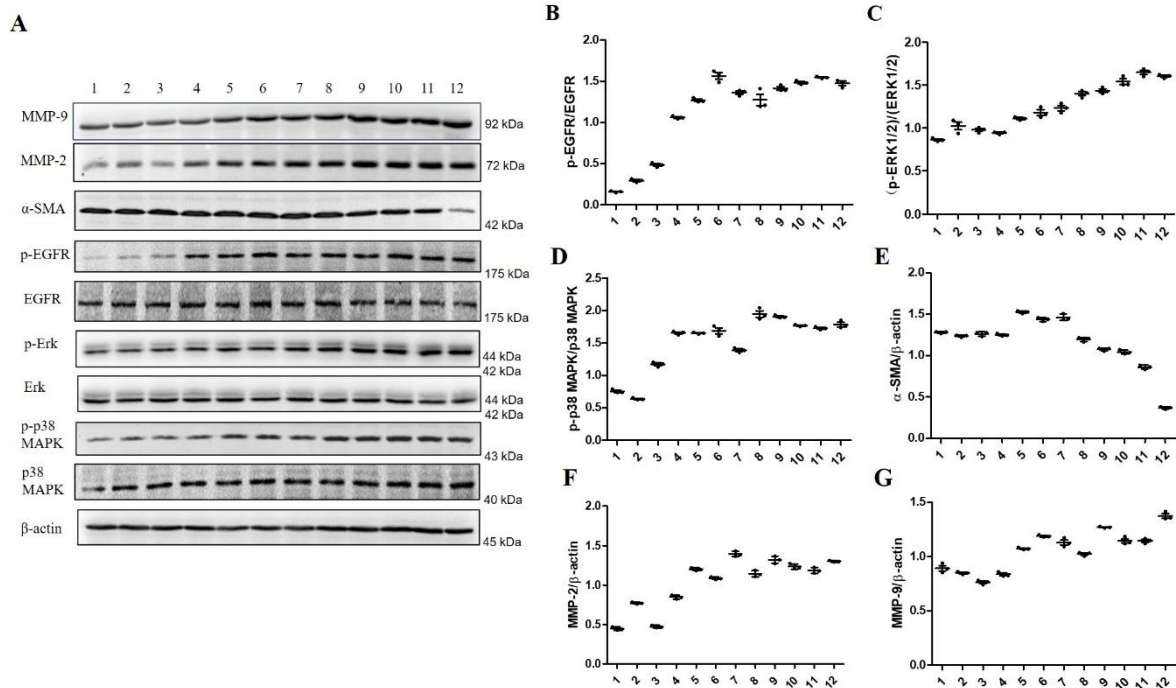
4

5 **Figure S1.** Tissue samples were from unruptured human IA (left) and human STA

6 (right). The tissue sections were stained for α -SMA (brown), MMP-2 (brown) and

7 TNF- α (brown) by IHC. Representative images were shown.

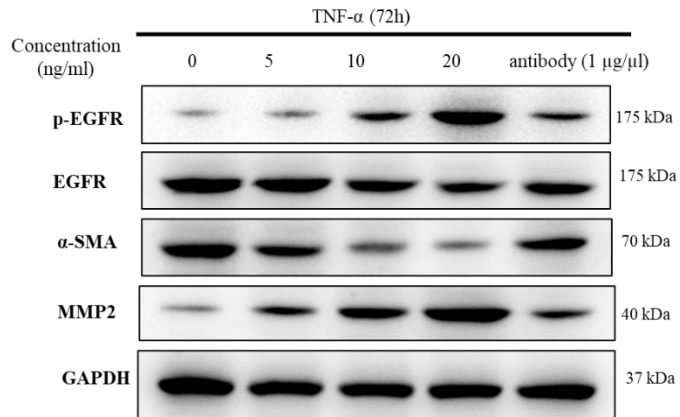
8



1

2 **Figure S2.** EGFR activation and downstream signals of VSMCs in *in vitro* co-culture
3 cell models with stimulation of hemodynamics. **A:** Expression levels of p-EGFR,
4 EGFR, p-Erk1/2, Erk1/2, p-p38MAPK, p38MAPK, α-SMA, MMP-2 and MMP-9
5 with the extension of stimulation time and strength of WSS. (1: 0 dyn/cm² + 24h; 2: 0
6 dyn/cm² + 48h; 3: 0 dyn/cm² + 72h; 4: 4 dyn/cm² + 24h; 5: 4 dyn/cm² + 48h; 6: 4
7 dyn/cm² + 72h; 7: 12 dyn/cm² + 24h; 8: 12 dyn/cm² + 48h; 9: 12dyn/cm² + 72h; 10:
8 36 dyn/cm² + 24h; 11: 36 dyn/cm² + 48h; 12: 36 dyn/cm² +72h). **B, C, and D:** The
9 expression levels of p-EGFR, p-Erk and p-p38 MAPK were quantified and
10 normalized by their unphosphorylated forms. **E, F and G:** The expression of α-SMA,
11 MMP-2 and MMP-9 were quantified and normalized by β-actin. Data are represented
12 as the mean ± SD.

13



1

2 **Figure S3.** Protein expression of p-EGFR, EGFR, α -SMA and MMP-2 in VSMCs
 3 stimulated by TNF- α (20 ng/ μ l) with different concentrations and TNF- α antibody (1
 4 μ g/ μ l) analyzed by western blot.