

Supplemental Figure 1: All H&E stained SVG sections. All H&E stained sections with whole vessels shown in 4x, 20x and 60x magnification (n=6). Blue and yellow boxes show the magnified area on the preceding image. Green boxes indicate samples used in Figure 1.

Supplemental Figure 2: All Movat Pentachrome stained SVG sections. All Pentachrome stained sections with whole vessels shown in 4x, 20x and 60x magnification (n=6). Blue and yellow boxes show the magnified area on the preceding image. Green boxes indicate samples used in Figure 1.

Supplemental Figure 3: All VE-cadherin stained samples. Each image was taken on 20x magnification with VE-cadherin in pink and DAPI in blue. For each patient, the left image shows the entirety of the stained vessel with a pink box to indicate the area of the enhanced magnification to the right. Green boxes indicate images used in Figure 2.

Supplemental Figure 4: All eNOS stained samples. Each image was taken on 20x magnification with eNOS in pink and DAPI in blue. For each patient, the left image shows the entirety of the stained vessel with a pink box to indicate the area of the enhanced magnification to the right. Green boxes indicate images used in Figure 2.

Supplemental Figure 5: All 4HNE stained samples. Each image was taken on 20x magnification with 4HNE in pink and DAPI in blue. For each patient, the left image shows the entirety of the stained vessel with a pink box to indicate the area of the enhanced magnification to the right. Green boxes indicate images used in Figure 3. Staining specificity was confirmed using secondary only control staining.

Supplemental Figure 6: All NRF2 stained samples. Each image was taken on 20x magnification with 4HNE in green and DAPI in blue. For each patient, the left image shows the entirety of the

stained vessel with a pink box to indicate the area of the enhanced magnification to the right. Green boxes indicate images used in Figure 3. Staining specificity was confirmed using secondary only control staining.