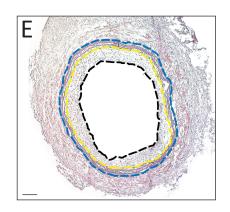


- 1.Hematoxylin & Eosin (H&E) stain every 10 slides along entire artery to find area of injury (e.g. slides 1, 10, 20, 30, through slide 70).
- 2.Stain additional slides around the injury to find the peak occlusion (e.g. slides 20, 30, and 40 had hyperplasia, thus stain slides 15, 25, 35, and 45).
- 3.Stain and quantify the slide with peak occlusion and equidistant slides before and after the peak injury slide for a total of 3-10 slides per rat.
- 4.Average the obtained values from the 3-10 slides to get the average injury (% occlusion, intima:media ratio, neointimal hyperplasia) per rat carotid artery.



F % Vessel Occlusion =
$$\left(\frac{\text{Area}_{\text{internal}} - \text{Area}_{\text{lumen}}}{\text{Area}_{\text{internal}}}\right) \times 100$$

Intima:Media =
$$\frac{Area_{intima}}{Area_{media}} = \frac{Area_{internal}}{Area_{external}} - Area_{lumen}$$