

## Supplementary Information

**Table S1: Contrast enhanced ultrasound quantitative parameters before and after AVUS**

	Sham			Primary Dose AVUS			Reduced Dose AVUS		
	Pre Mean( $\pm$ SEM)	Post Mean( $\pm$ SEM)	P-Value	Pre Mean( $\pm$ SEM)	Post Mean( $\pm$ SEM)	P-Value	Pre Mean( $\pm$ SEM)	Post Mean( $\pm$ SEM)	P-Value
<b>NLC Peak Enhancement</b>	3.9 (2.4)	3.1 (1.7)	<i>0.17</i>	5.3 (1.3)	2.8 (0.7)	<i>0.003</i>	4.7 (1.5)	6.9 (2.7)	<i>0.90</i>
<b>NLC Perfusion Index</b>	4.0 (2.7)	3.2 (1.7)	<i>0.20</i>	4.7 (1.2)	2.8 (0.7)	<i>0.007</i>	3.6 (1.0)	6.7 (2.7)	<i>0.93</i>
<b>NLC Time to Peak</b>	16.8 (2.8)	25.3 (7.3)	<i>0.07</i>	16.5 (1.8)	24.6 (3.0)	<i>0.009</i>	23.1 (2.6)	26.8 (4.9)	<i>0.26</i>
<b>PD Peak Perfused Area</b>	79.3 (9.9)	76.4 (9.1)	<i>0.16</i>	87.2 (3.6)	73.2 (6.0)	<i>0.014</i>	67.5 (9.3)	68.2 (8.6)	<i>0.54</i>
<b>PD Perfusion Area Index</b>	95.6 (15.9)	88.8 (16.7)	<i>0.26</i>	104.3 (7.5)	77.8 (8.2)	<i>0.009</i>	82.7 (14.4)	77.1 (15.9)	<i>0.23</i>
<b>PD Color Weighted Fractional Area Peak Enhancement</b>	40.6 (6.6)	37.4 (6.7)	<i>0.04</i>	48.0 (3.0)	35.5 (3.6)	<i>0.007</i>	37.7 (6.6)	33.6 (3.7)	<i>0.22</i>
<b>Delta Projection Area</b>	57.6 (10.0)	58.2 (10.2)	<i>0.63</i>	75.7 (4.2)	59.1 (6.4)	<i>0.002</i>	66.8 (8.2)	64.3 (7.8)	<i>0.29</i>