

**SUPPLEMENTAL MATERIAL**

**Supplemental Table 1. Proportion of PCI-treated Versus Diseased Vessels Among Patients With Multi-vessel Disease and No History of CABG Undergoing TRI Procedures According to Operator TRI Volume**

#Treated vessel / #diseased vessel	1-10 (N=3,812)	11-50 (N=10,377)	51-100 (N=5,286)	>100 (N=3,077)
1/2	2,169 (24.8)	5,873 (24.9)	3,029 (26.3)	1,700 (25.2)
1/3	690 (7.9)	1,758 (7.5)	947 (8.2)	544 (8.1)
2/2	657 (7.5)	1,758 (7.5)	855 (7.4)	544 (8.1)
2/3	215 (2.5)	609 (2.6)	330 (2.9)	207 (3.1)
3/3	26 (0.3)	85 (0.4)	51 (0.4)	30 (0.4)
Either #treated or #diseased missing	55 (0.6)	194 (0.8)	74 (0.6)	52 (0.8)

**Supplemental Table 2. Evaluation of the Relationship Between Procedural Outcomes and TRI Volume Using Linear Splines**

<b>Outcome</b>	<b>Knot Point (<math>k_0</math>)</b>	<b>Slope (<math>\beta_1</math>) for Radial Volume <math>\leq k_0</math></b>	<b>Slope (<math>\beta_2</math>) for Radial Volume <math>&gt; k_0</math></b>	<b>P-Value for <math>H_0: \beta_1 \neq \beta_2</math></b>	<b>AIC</b>
Fluoroscopy time	30	-0.51 (-0.64, -0.39)	-0.04 (-0.08, 0.01)	< 0.001	402287
	35	-0.45 (-0.56, -0.34)	-0.03 (-0.07, 0.02)	< 0.001	402288
	40	-0.40 (-0.50, -0.31)	-0.01 (-0.06, 0.03)	< 0.001	402287
	45	-0.36 (-0.45, -0.27)	0.00 (-0.05, 0.05)	< 0.001	402288
	50	-0.33 (-0.41, -0.24)	0.00 (-0.05, 0.05)	< 0.001	402290
	RCS				402104
Contrast volume	30	-2.27 (-3.27, -1.28)	-0.56 (-0.93, -0.20)	0.002	613601
	35	-2.10 (-2.96, -1.24)	-0.50 (-0.87, -0.13)	0.001	613601
	40	-2.02 (-2.78, -1.25)	-0.41 (-0.79, -0.03)	< 0.001	613599
	45	-1.91 (-2.61, -1.22)	-0.34 (-0.73, 0.05)	< 0.001	613599
	50	-1.79 (-2.43, -1.15)	-0.29 (-0.69, 0.11)	< 0.001	613599
	RCS				613350

\* Slope and 95% CI estimates are for a 10 case increase in radial case volume

AIC indicates Akaike Information Criterion; RCS, restricted cubic spline

## **Supplemental Figure Legends**

### **Supplemental Figure 1. Relationship between Operator TRI Volume and Procedural Outcomes among Females**

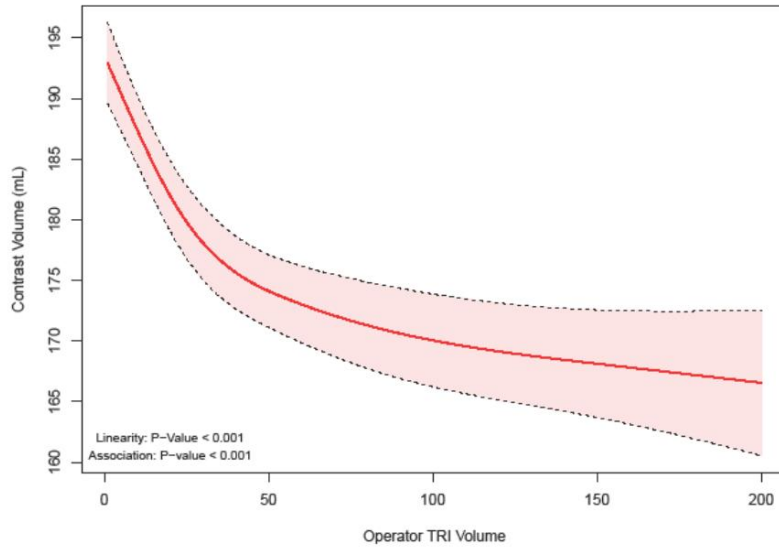
Shown here are curves depicting the unadjusted and adjusted relationships between TRI volume and fluoroscopy times (A and B, respectively); unadjusted relationships between TRI volume and contrast volume (C and D, respectively), and unadjusted and adjusted relationships between TRI volume and procedure success (E and F, respectively). Dotted lines represent 95% confidence intervals.

### **Supplemental Figure 2. Relationship between Operator TRI Volume and Procedural Outcomes among Patients $\geq 75$ Years Old**

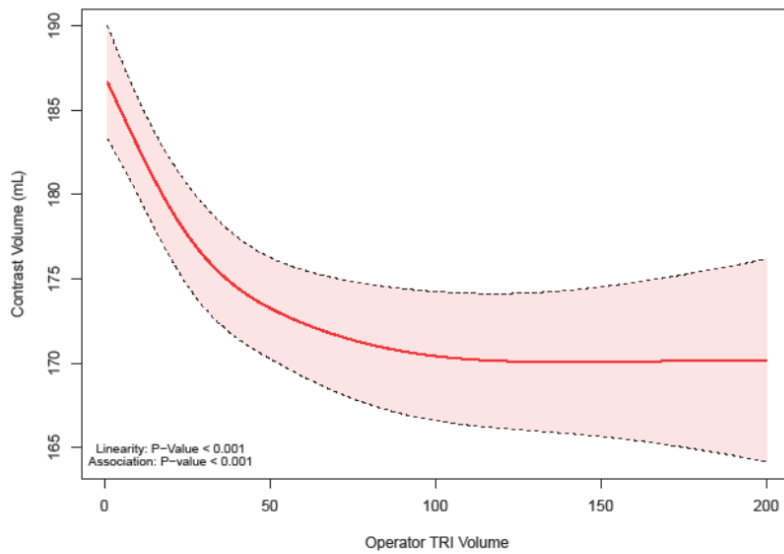
Shown here are curves depicting the unadjusted and adjusted relationships between TRI volume and fluoroscopy times (A and B, respectively); unadjusted relationships between TRI volume and contrast volume (C and D, respectively), and unadjusted and adjusted relationships between TRI volume and procedure success (E and F, respectively). Dotted lines represent 95% confidence intervals.

# Supplemental Figure 1

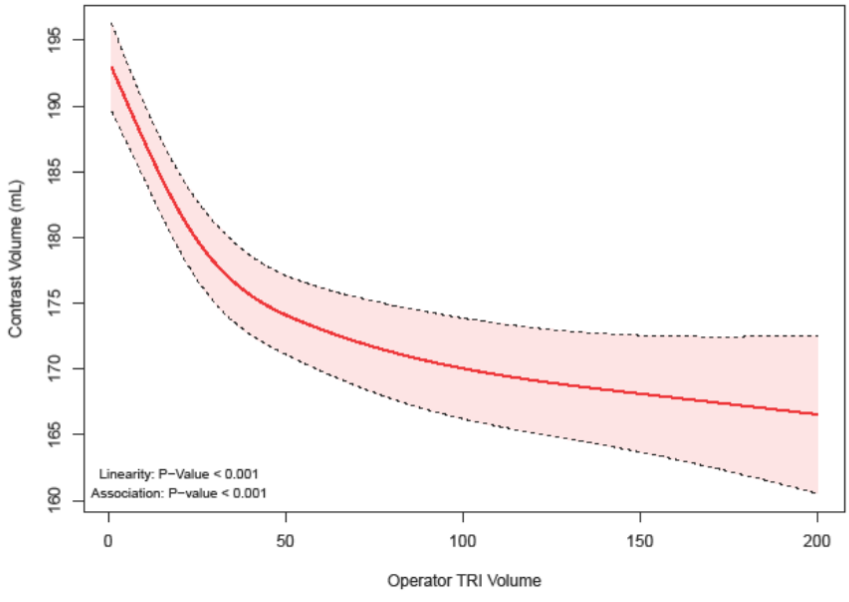
A.



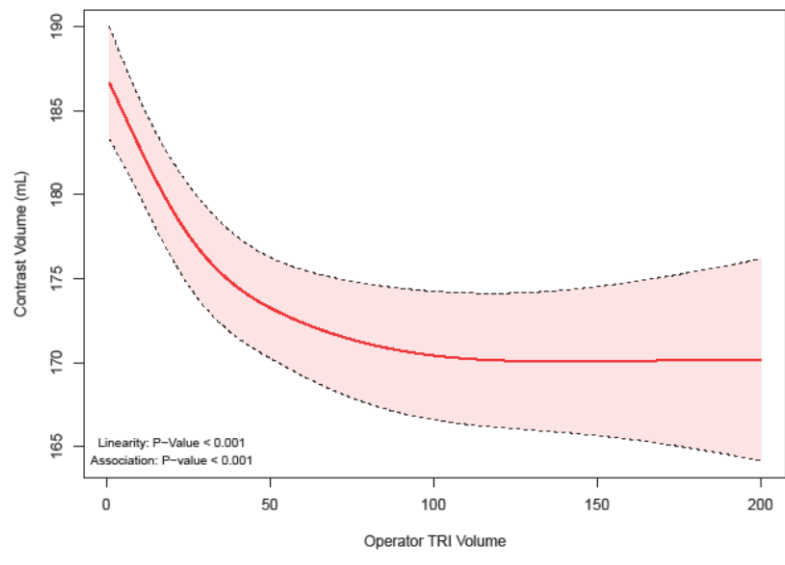
B.



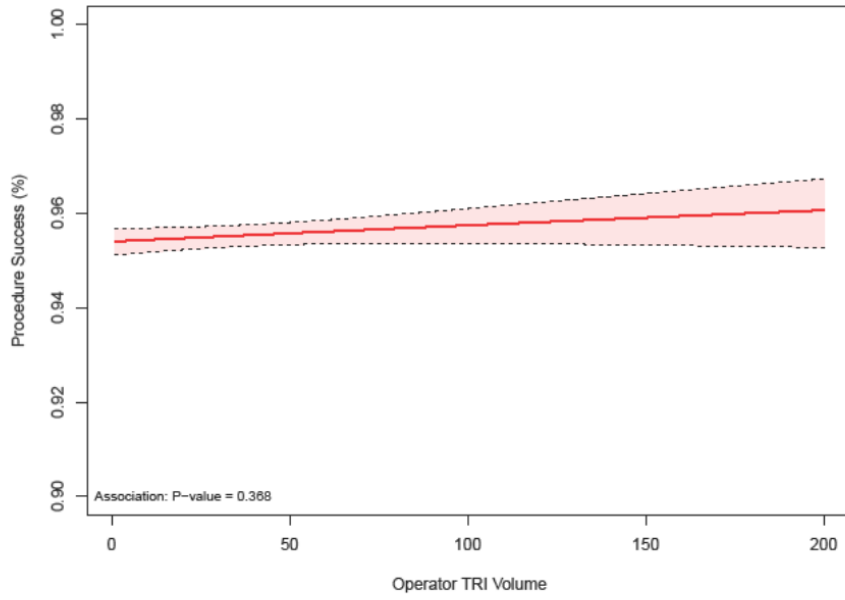
C.



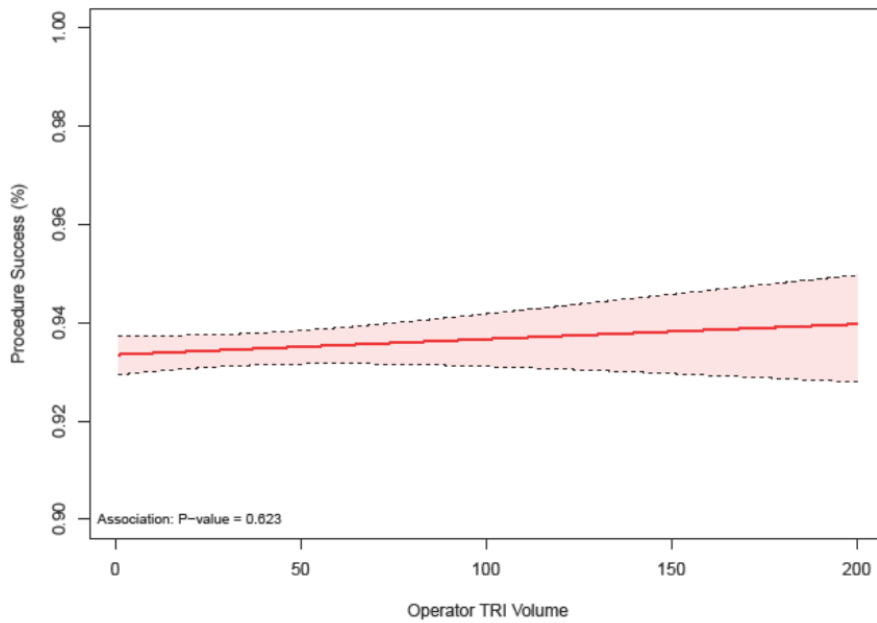
**D.**



**E.**

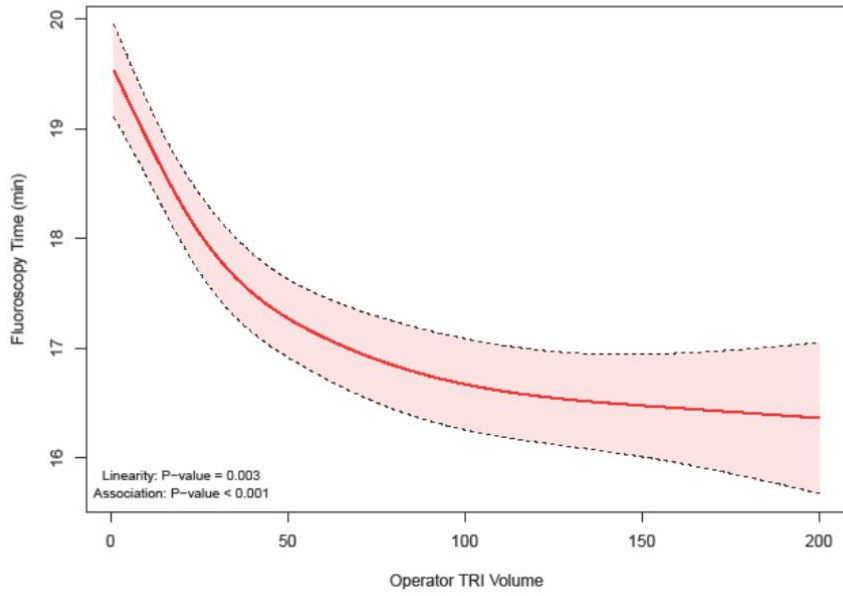


**F.**

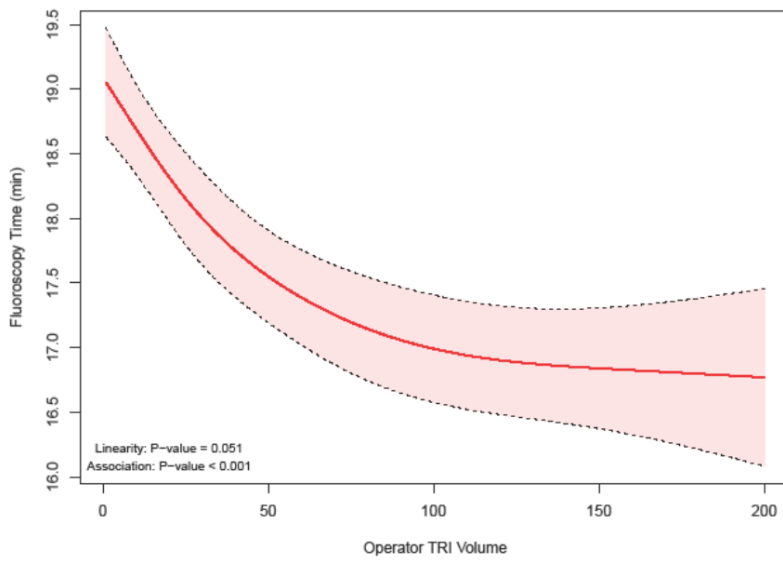


**Supplemental Figure 2**

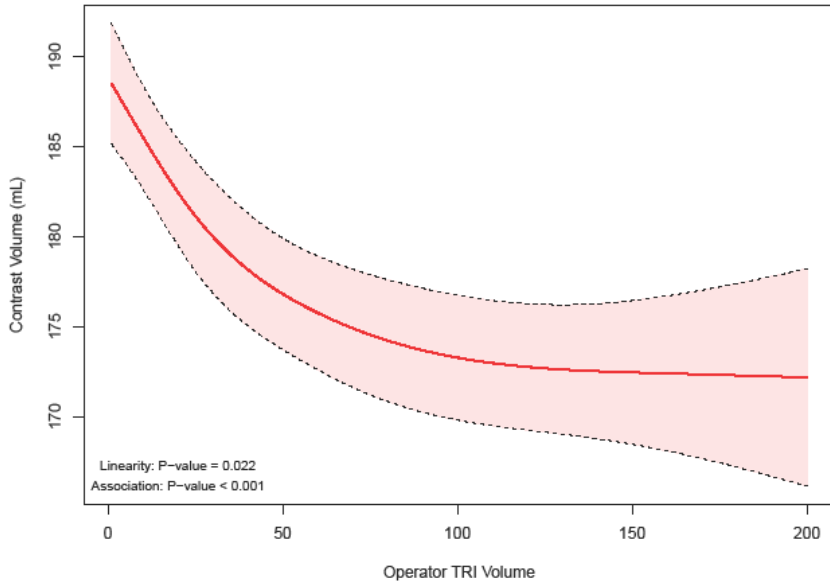
**A.**



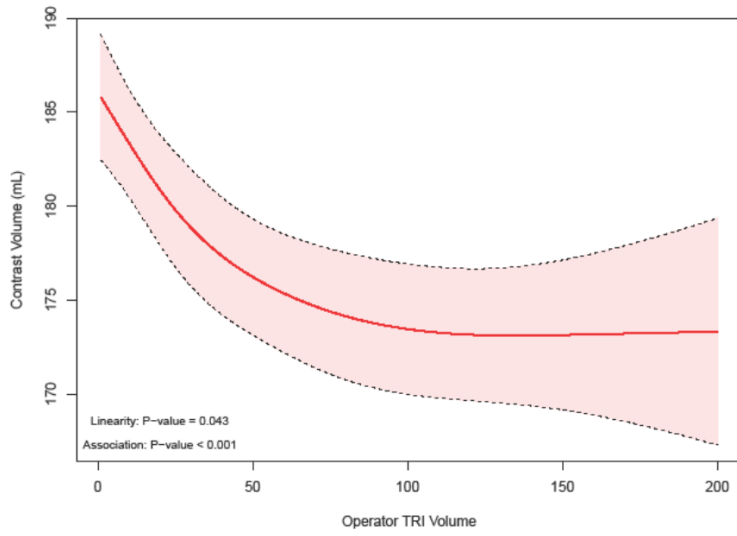
**B.**



**C.**

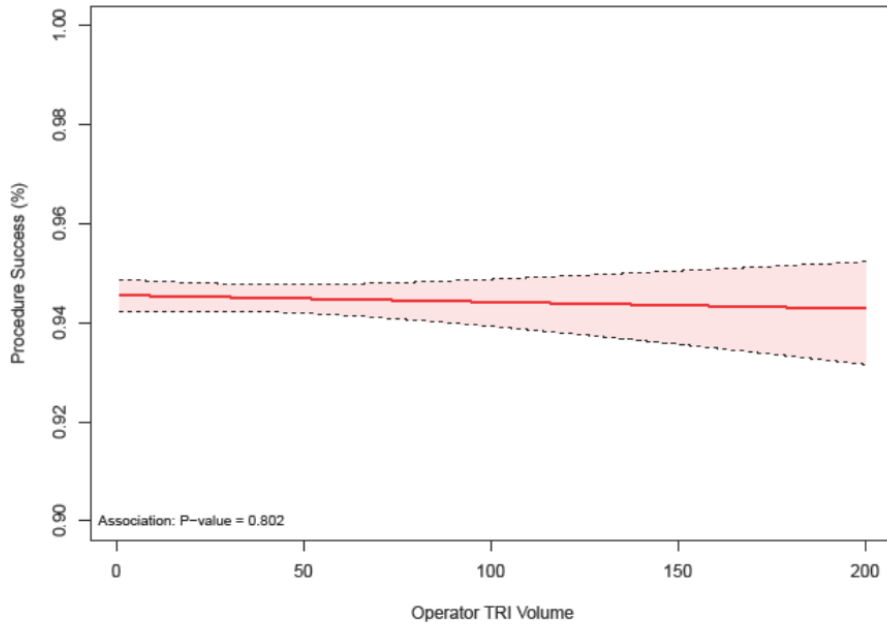


**D.**



**E.**





**F.**

