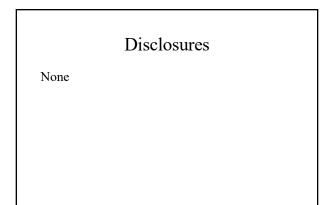
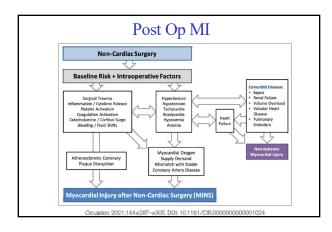
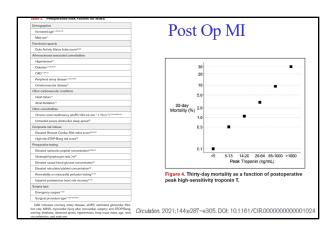
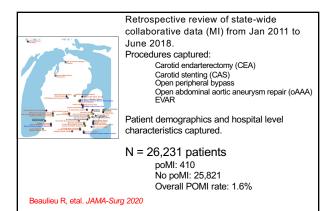
Post operative Myocardial Infarctions: What are the new options for diagnosis, prevention and treatment?

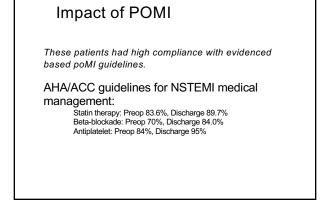
Peter K Henke, MD Section of Vascular Surgery University of Michigan Medical Center









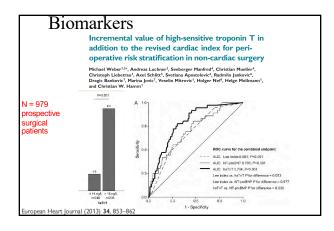


Impact of POMI	
One year mortality rate was sign patients experiencing a POMI (3)	, , , ,
Open AAA and peripheral bypas high risk procedures.	s are the "highest" of the
AAA: 3.75% Peripheral bypass: 2.56%	<u>Mortality (one year)</u> : 41.2% 45.3%
POMI strongly associated with a mortality.	Il-cause one year
monality.	o<0.001)

Cardiac Preop Risk Calculation • Risk factors to consider • Calculators $\widehat{\mathbf{v}}$ Events $\widehat{\mathbf{v}$ Events $\widehat{\mathbf{v}}$ Events $\widehat{\mathbf{v}$ Events $\widehat{\mathbf{v}}$ Events $\widehat{\mathbf{v}}$ Events $\widehat{\mathbf{v}$ Ev

The Vascular Quality Initiative Cardiac Risk In for prediction of myocardial infarction after vase surgery		cular Quali			
	Risk factor	Coefficient	SE ^a	OR	P ralue
 N = 88,791 	Intercept Procedure	-5.82	0.14	-	-
- Logistia	CEA (referent)	0			
Logistic	EVAR INFRA	0.17	0.16	1.2	.2901
	SUPRA	1.12	0.09	4.9	<.0001
regression and	OAAA	1.91	0.13	6.7	<.0001
	Age, years		0.10	0.7	
validation	<60 (referent)	0	_	_	_
validation	60-69	0.44	0.13	1.6	.0006
 Most are non- 	70-79	0.64	0.13	1.9	<.0001
 INIOSLATE HOLE 	≥80	1.10	0.14	3.0	<.0001
100 J L L L	Creatinine ≤1.8 mg/dL	0			
modifiable!	>1.8 mg/dL	0.76	011	2.1	<.0001
	>1.8 mg/dl. On dialysis	0.76	0.11	1.9	<.0001
	Stress test	0.04			
	Not performed (referent)	0		_	-
	Normal	-0.15	0.09	0.9	.0967
	Abnormal	0.46	0.11	1.6	<.0001
	CAD				
	None Asymptomatic	0 40	0.09	1.5	<.0001
	Symptomatic	0.40	0.09	2.1	<.0001
	Diabetes	0.70	0.09	ar. 1	
	None (referent)	0	_	_	_
	Diet controlled	0.18	0.15	1.2	.2251
	Noninsulin medication	0.20	0.08	1.2	.0152
	Insulin	0.39	0.09	1.5	<.0001
(I Mass Sung 2016,64,1411, 21.)	CHF	0			
(J Vasc Surg 2016;64:1411-21.)	None (referent) Asymptomatic	0.44	0.10	1.5	<.0001
	Symptomatic	0.50	0.10	1.5	<.0001

Is there additional biomarker information to be gained to help stratify patients?



rt Study								
Table 2. Incidence of 30-Day Outcomes, by Preoperative NT-proBNP Values*								
Variable	All Patients (n = 10 402)	Preoperative NT-proBNP Threshold						
		<100 pg/mL (n = \$3\$6)	100 to <200 pg/mL (n = 1843)	200 to <1500 pg/mL (n = 2608)	≥1500 pg/mL (n = \$9\$)			
Composite of vascular death or MINS								
Events, n (incidence [95% CI], %)† Adjusted HR (95% CI)	1269 (12.2 [11.6-12.8])	278 (5.2 [4.6-5.8]) 1.00	226 (12.3 [10.8-13.8]) 2.27 (1.90-2.70)	542 (20.8 [19.2-22.3]) 3.63 (3.13-4.21)	223 (37.5 [33.5-41.3 5.82 (4.81-7.05)			
Composite of all-cause mortality or MI								
Events, n (incidence [95% CI], %)† Adjusted HR (95% CI)	446 (4.3 [3.9-4.7])	92 (1.7 [1.4-2.1])	55 (3.0 [2.2-3.8]) 1 57 (1 12-2 19)	205 (7.9 [6.8-8.9])	94 (15.8 [12.8-18.7 5 35 (3 91-7 34)			
MINS								
Events, n (incidence [95% CI], %)† Adjusted HR (95% CI)	1237 (11.9 [11.3-12.5])	272 (5.1 [4.5-5.7]) 1.00	223 (12.1 [10.6-13.6]) 2.29 (1.91-2.73)	529 (20.3 [18.7-21.8]) 3.62 (3.12-4.21)	213 (35.8 [31.9-39.6 5.70 (4.69-6.92)			
MI								
Events, n (incidence [95% CI], %)† Adjusted HR (95% CI)	378 (3.6 [3.3-4.0])	82 (1.5 [1.2-1.9]) 1.00	46 (2.5 [1.8-3.2]) 1.47 (1.02-2.10)	175 (6.7 [5.7-7.7]) 3.46 (2.64-4.53)	75 (12.6 [9.9-15.3] 4.68 (3.32-6.60)			
All-cause mortality								
Events, n (incidence [95% CI], %)† Adjusted HR (95% CI)	88 (0.8 [0.7-1.0])	14 (0.3 [0.1-0.4]) 1.00	13 (0.7 [0.3-1.1]) 2.41 (1.13-5.14)	37 (1.4 [1.0-1.9]) 4.12 (2.20-7.73)	24 (4.0 [2.4-5.6]) 8.40 (4.10-17.23)			
Vascular death								
Events, n (incidence [95% CI], %)† Adjusted HR (95% CI)	54 (0.5 [0.4-0.7])	11 (0.2 [0.1-0.3])	8 (0.4 [0.1-0.7]) 1.84 (0.74-4.59)	18 (0.7 [0.4-1.0]) 2.41 (1.11-5.21)	17 (2.9 [1.5-4.2]) 6.75 (2.90-15.70)			

