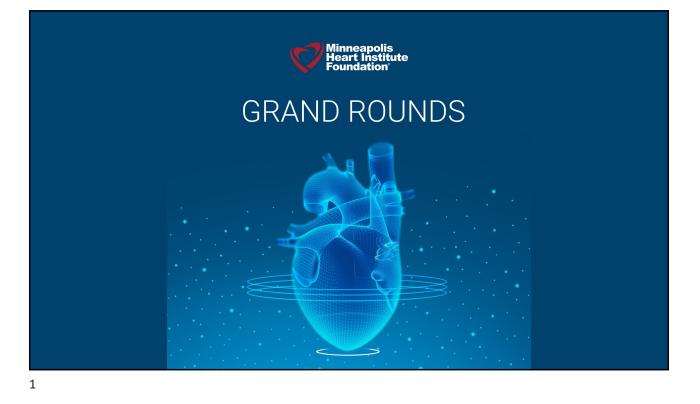
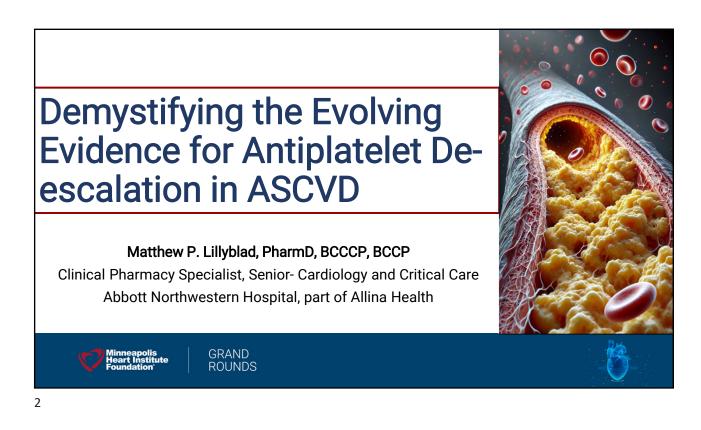
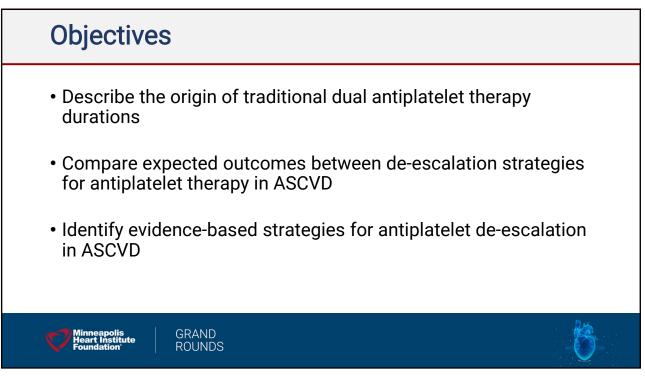
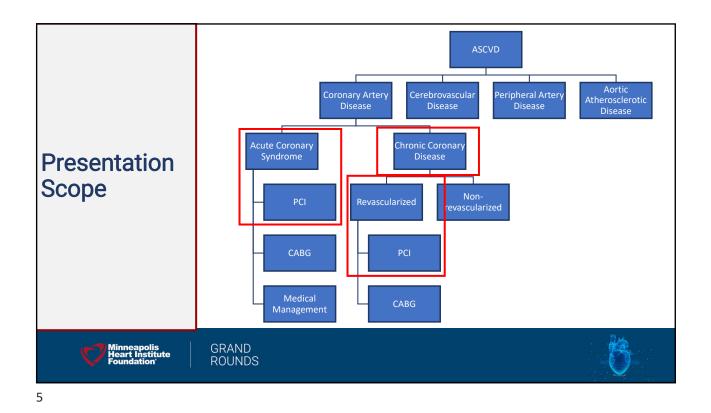
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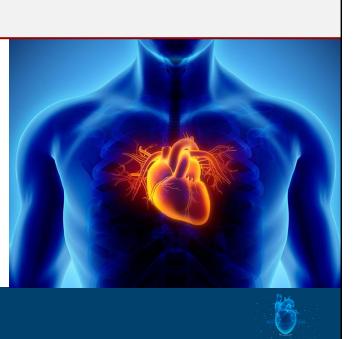


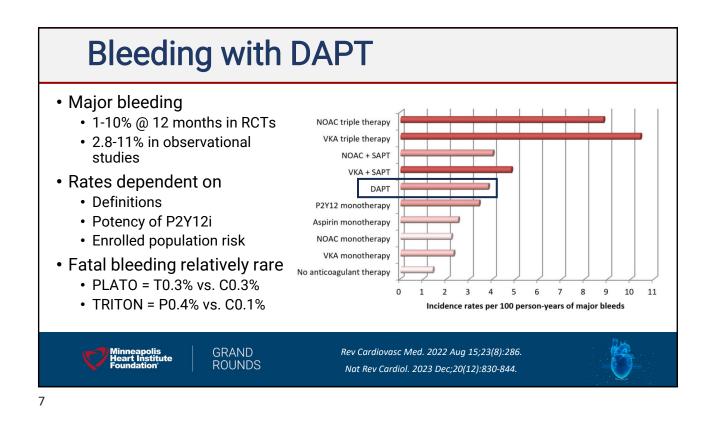


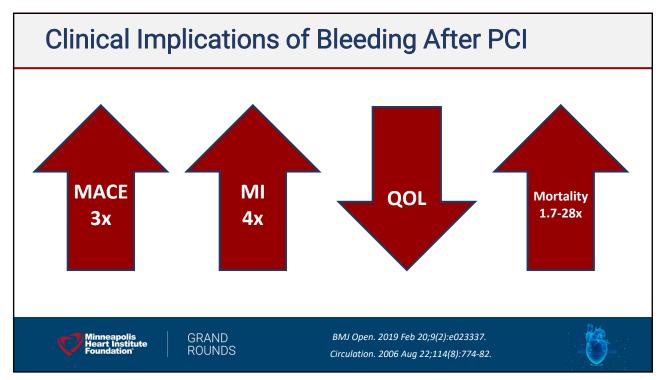
Background

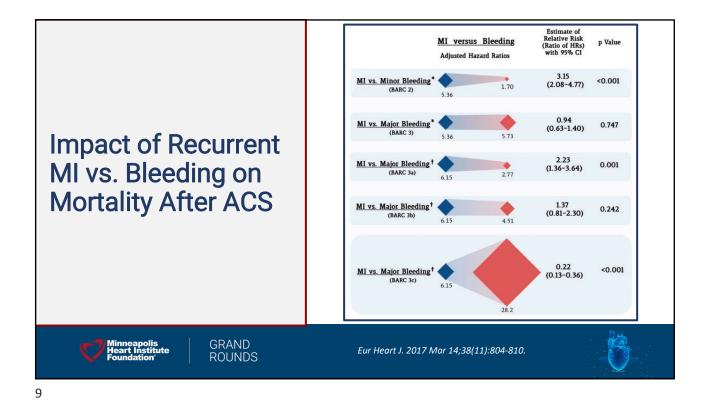
- Antithrombotic therapy = cornerstone for CAD and ACS
- Dual antiplatelet therapy (DAPT) with ASA + P2Y12i = gold standard after PCI
 - \downarrow recurrent myocardial infarction
 - \downarrow stent thrombosis
- Newer generation P2Y12i further ↓ischemic events
- Primary limitation is ↑bleeding

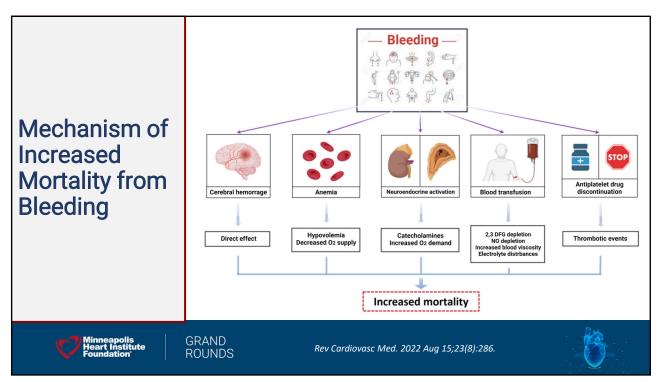
GRAND ROUNDS



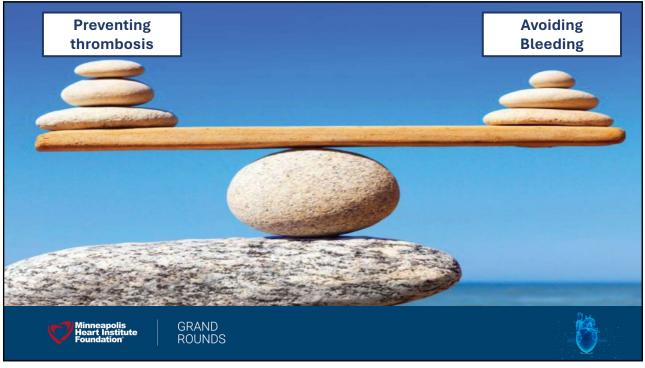


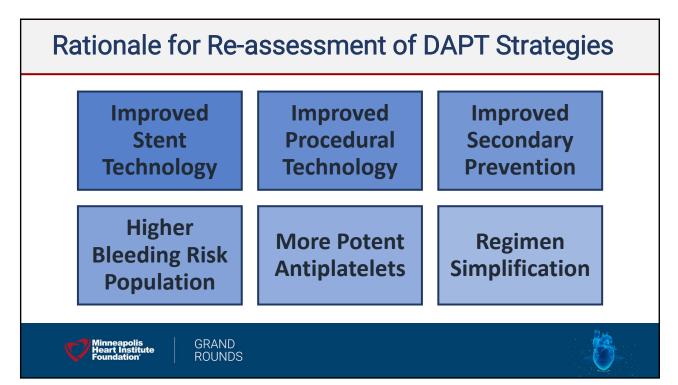


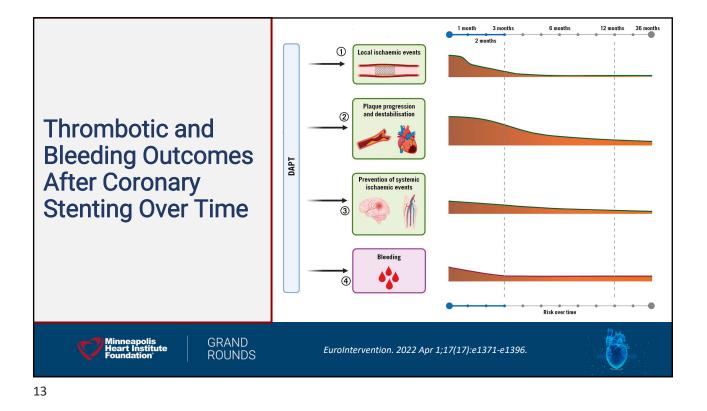


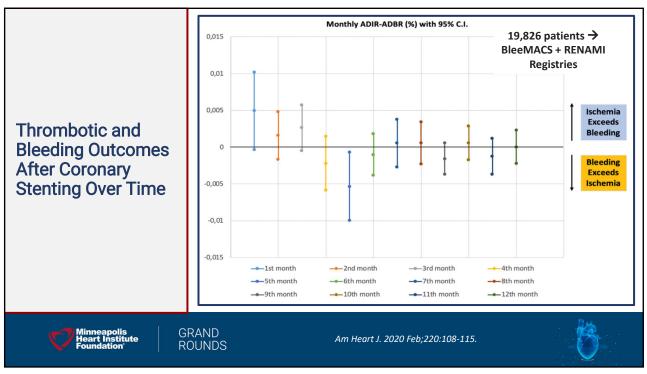


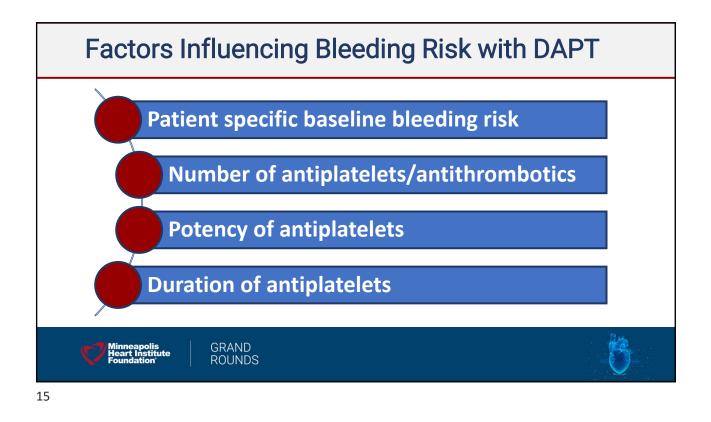
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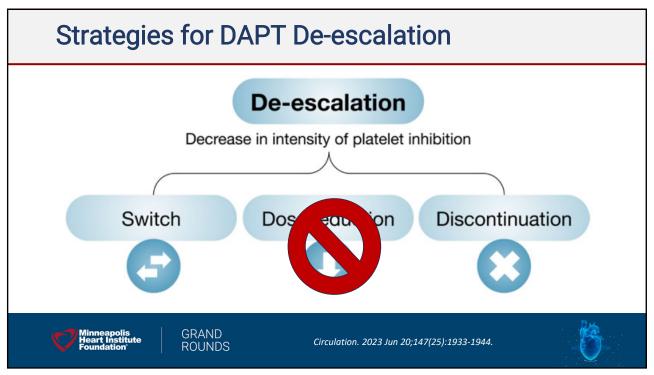


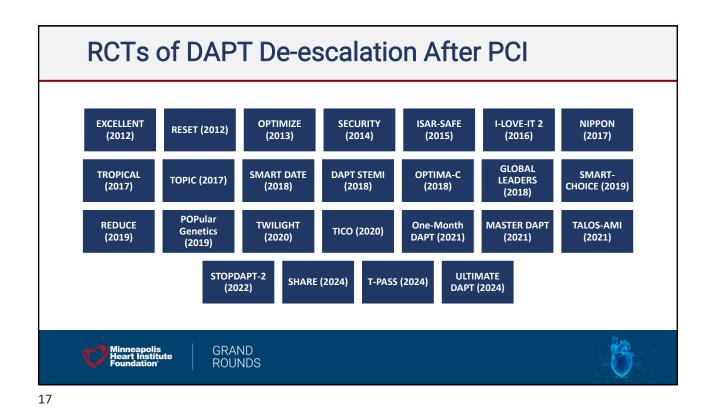




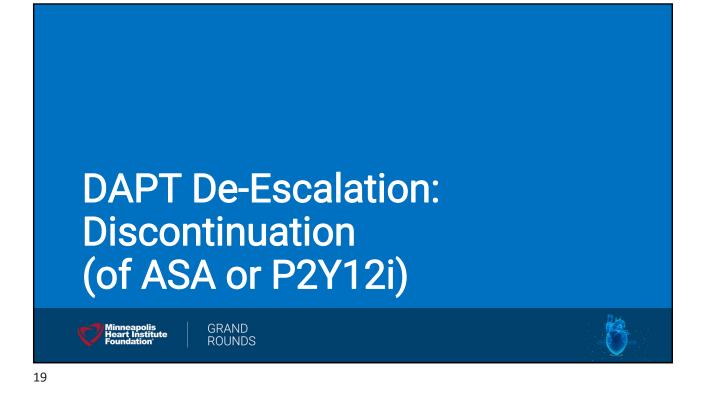


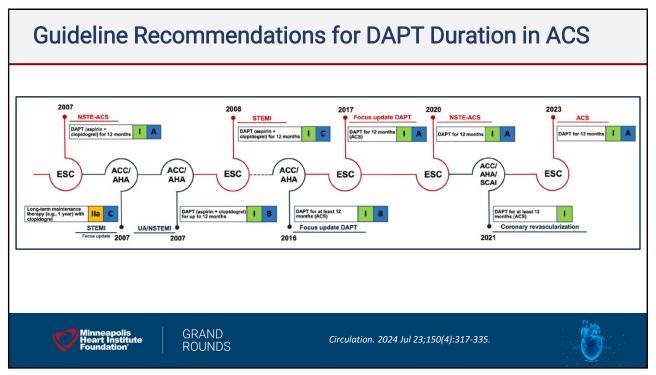


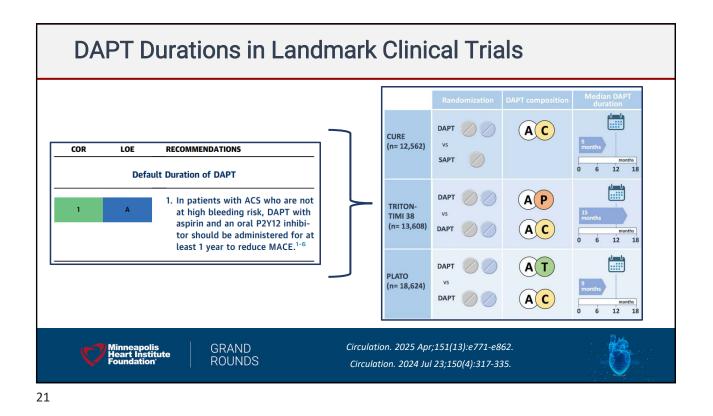


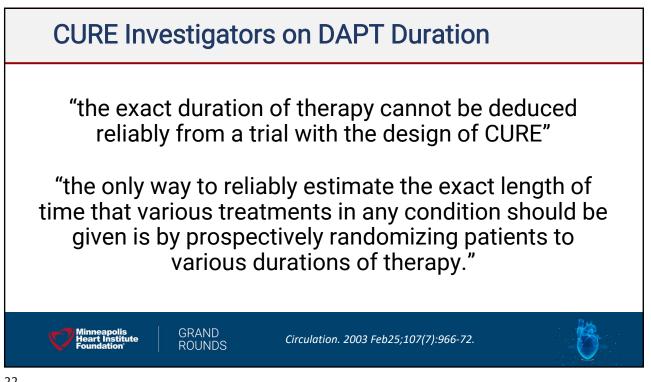


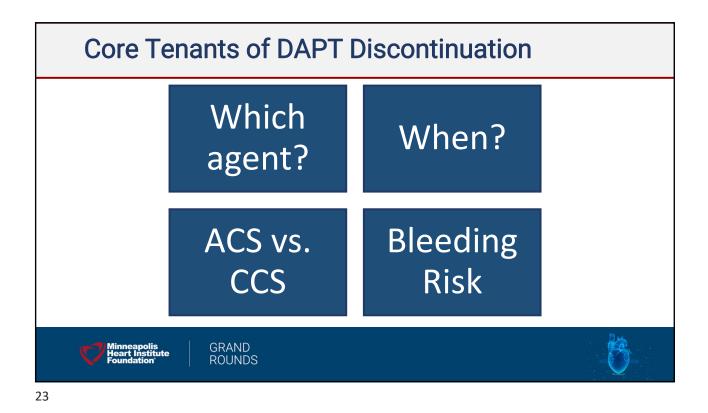


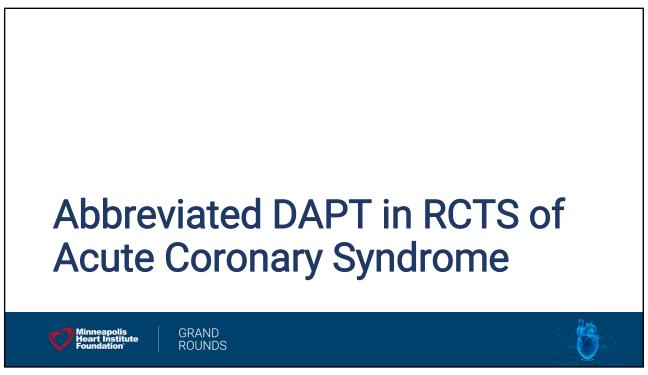


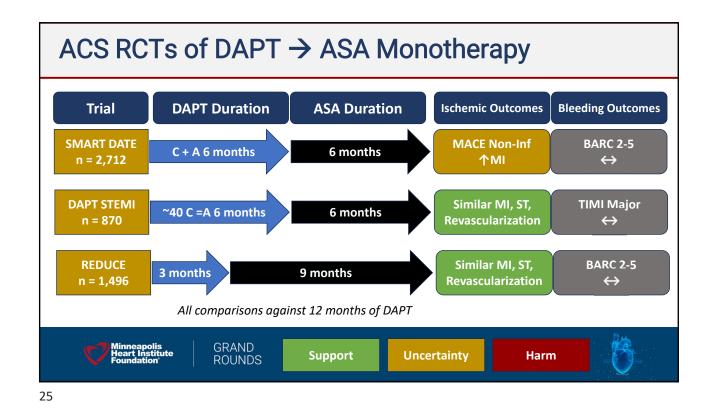


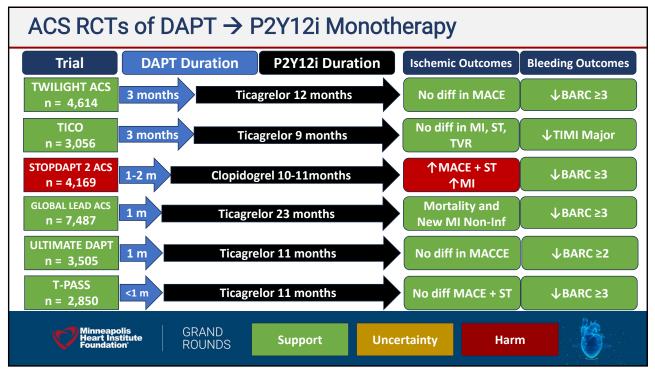


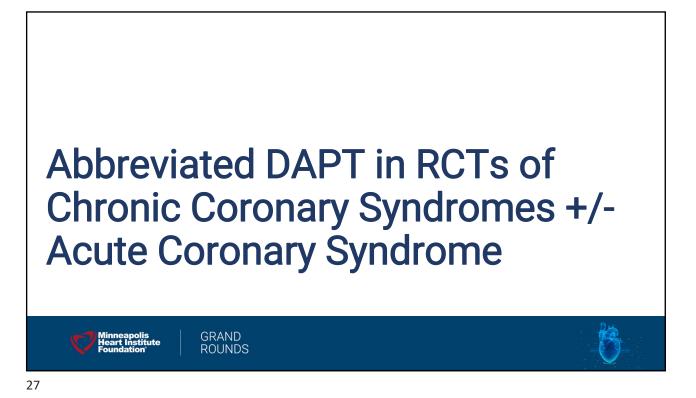




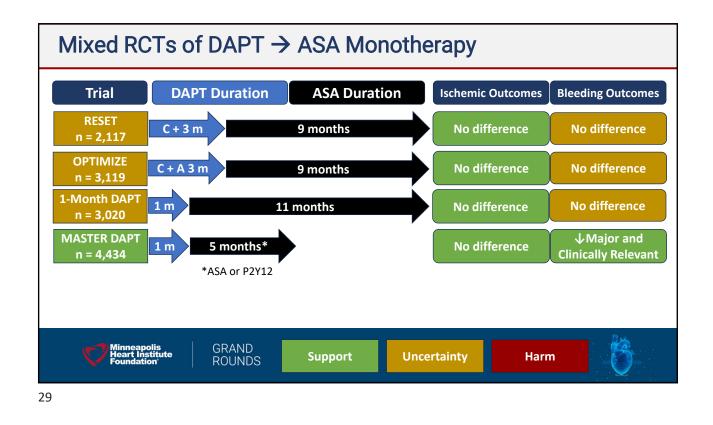


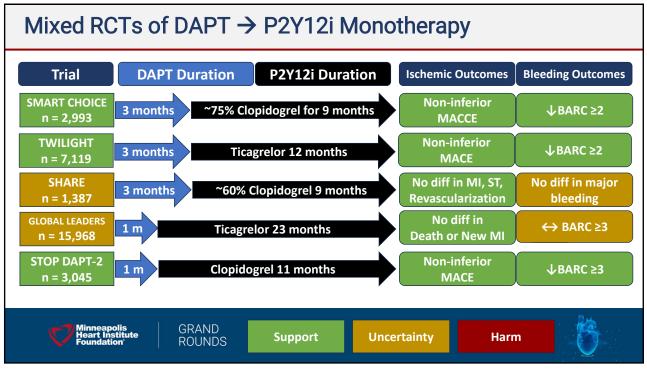


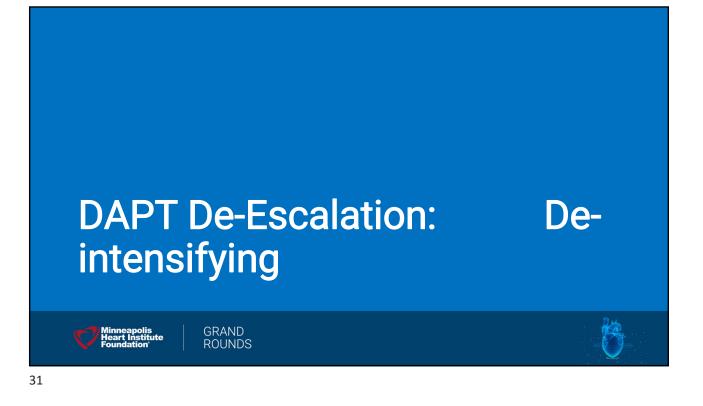




Mixed RCTs of DAPT \rightarrow ASA Monotherapy ASA Duration Trial **DAPT Duration Ischemic Outcomes Bleeding Outcomes EXCELLENT** C + A 6 months No difference 6 months No difference n = 1,443 NIPPON C + A 6 months 6 months No difference No difference n = 3,773 **OPTIMA-C** No difference C + A 6 months 6 months No difference n = 1,368 SECURITY No difference C + A 6 months 6 months No difference n = 1,399 **ISAR-SAFE** 6 months No difference C + A 6 months **↓**Any bleeding n = 4,000 I LOVE IT 2 C + A 6 months 6 months No difference No difference n = 1,829 GRAND leart Institute Uncertainty Support Harm ROUNDS







Rationale for DAPT De-Intensifying

ble 3. Thrombolysis in Myocardial Infarction (TIMI) Bleeding End Points in the Overall Cohort at 15 Months.*					
End Point	Prasugrel (N = 6741)	Clopidogrel (N=6716)	Hazard Ratio for Prasugrel (95% CI)	P Value	
	no. of pa	tients (%)			
Non–CABG-related TIMI major bleeding (key safety end point)	146 (2.4)	111 (1.8)	1.32 (1.03-1.68)	0.03	
Related to instrumentation	45 (0.7)	38 (0.6)	1.18 (0.77-1.82)	0.45	
Spontaneous	92 (1.6)	61 (1.1)	1.51 (1.09-2.08)	0.01	
Related to trauma	9 (0.2)	12 (0.2)	0.75 (0.32-1.78)	0.51	
Life-threatening†	85 (1.4)	56 (0.9)	1.52 (1.08-2.13)	0.01	
Related to instrumentation	28 (0.5)	18 (0.3)	1.55 (0.86-2.81)	0.14	
Spontaneous	50 (0.9)	28 (0.5)	1.78 (1.12-2.83)	0.01	
Related to trauma	7 (0.1)	10 (0.2)	0.70 (0.27-1.84)	0.47	
Fatal‡	21 (0.4)	5 (0.1)	4.19 (1.58-11.11)	0.002	
Nonfatal	64 (1.1)	51 (0.9)	1.25 (0.87-1.81)	0.23	
Intracranial	19 (0.3)	17 (0.3)	1.12 (0.58-2.15)	0.74	
Major or minor TIMI bleeding	303 (5.0)	231 (3.8)	1.31 (1.11-1.56)	0.00	
Bleeding requiring transfusion§	244 (4.0)	182 (3.0)	1.34 (1.11-1.63)	< 0.00	
CABG-related TIMI major bleeding¶	24 (13.4)	6 (3.2)	4.73 (1.90-11.82)	<0.00	

Table 4. Safety of the Study Drugs.*						
End Point	Ticagrelor Group	Clopidogrel Group	Hazard or Odds Ratio for Ticagrelor Group (95% CI)†	P Value		
Primary safety end points — no./total no. (%)						
Major bleeding, study criteria	961/9235 (11.6)	929/9186 (11.2)	1.04 (0.95-1.13)	0.43		
Major bleeding, TIMI criteria:	657/9235 (7.9)	638/9186 (7.7)	1.03 (0.93-1.15)	0.57		
Bleeding requiring red-cell transfusion	818/9235 (8.9)	809/9186 (8.9)	1.00 (0.91-1.11)	0.96		
Life-threatening or fatal bleeding, study criteria	491/9235 (5.8)	480/9186 (5.8)	1.03 (0.90-1.16)	0.70		
Fatal bleeding	20/9235 (0.3)	23/9186 (0.3)	0.87 (0.48-1.59)	0.66		
Nonintracranial fatal bleeding	9/9235 (0.1)	21/9186 (0.3)		0.03		
Intracranial bleeding	26/9235 (0.3)	14/9186 (0.2)	1.87 (0.98-3.58)	0.06		
Fatal	11/9235 (0.1)	1/9186 (0.01)		0.02		
Nonfatal	15/9235 (0.2)	13/9186 (0.2)		0.69		
Secondary safety end points — no./total no. (%)						
Non-CABG-related major bleeding, study criteria	362/9235 (4.5)	306/9186 (3.8)	1.19 (1.02-1.38)	0.03		
Non-CABG-related major bleeding, TIMI criteria	221/9235 (2.8)	177/9186 (2.2)	1.25 (1.03, 1.53)	0.03		
CABG-related major bleeding, study criteria	619/9235 (7.4)	654/9186 (7.9)	0.95 (0.85-1.06)	0.32		
CABG-related major bleeding, TIMI criteria	446/9235 (5.3)	476/9186 (5.8)	0.94 (0.82-1.07)	0.32		
Major or minor bleeding, study criteria	1339/9235 (16.1)	1215/9186 (14.6)	1.11 (1.03-1.20)	0.008		
Major or minor bleeding, TIMI criteria:	946/9235 (11.4)	906/9186 (10.9)	1.05 (0.96-1.15)	0.33		

Minneapolis Heart Institute Foundation

lis titute m^{*} ROUNDS N Engl J Med. 2007 Nov 15;357(20):2001-15. N Engl J Med. 2009 Sep 10;361(11):1045-57.

