Late Breaking Clinical Trials: 2019

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Wayne N. Leimbach, Jr. MD, FACC,

Clinical Associate Professor of Medicine University of Oklahoma College of Medicine - Tulsa

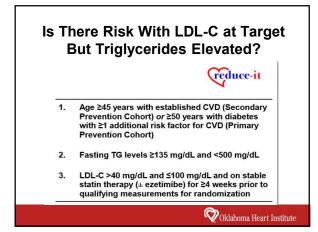
Director of the Cardiac Catheterization Laboratories Oklahoma Heart Institute at Hillcrest Medical Center

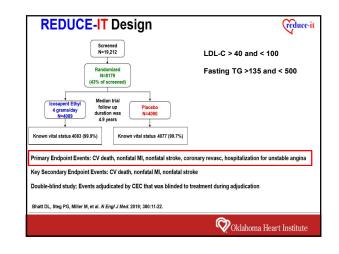
> Medical Director of Cardiology Oklahoma Heart Institute

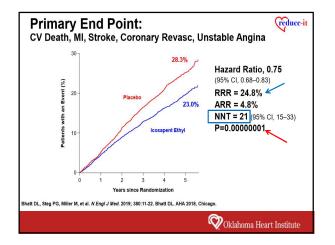


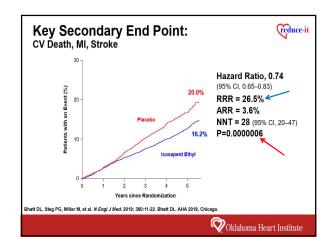




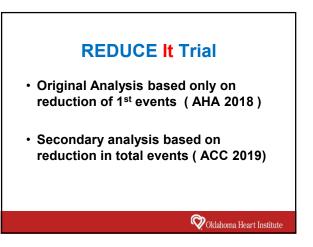


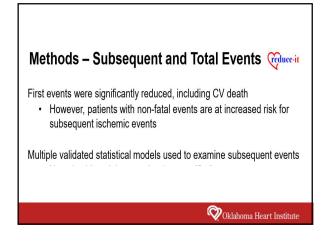


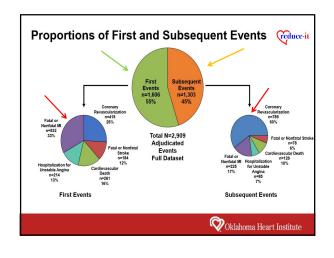


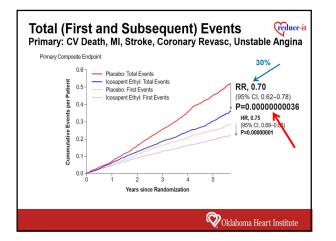


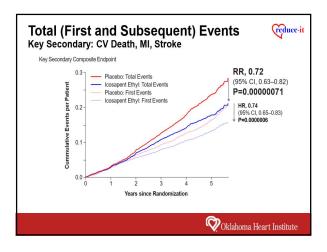
Endpoint	Hazard Ratio (95% CI)	Icosapent Ethyl	Placebo n/N (%)	Hazard Ratio (95% CI)	RRR	P-value
Primary Composite (ITT)	-		901/4090 (22.0%)	0.75 (0.680.83)	25%▼	< 0.001
Key Secondary Composite (ITT) -	-	459/4089 (11.2%)	606/4090 (14.8%)	0.74 (0.65-0.83)	26%▼	<0.001
Cardiovascular Death or Nonfatal Myocardial Infarction	-	392/4089 (9.6%)	507/4090 (12.4%)	0.75 (0.66-0.86)	25%▼	<0.001
Fatal or Nonfatal Myocardial Infarction	-	250/4089 (6.1%)	355/4090 (8.7%)	0.69 (0.58-0.81)	31%▼	<0.001
Urgent or Emergent Revascularization	-	216/4089 (5.3%)	321/4090 (7.8%)	0.65 (0.55-0.78)	35%▼	<0.001
Cardiovascular Death -	•	174/4089 (4.3%)	213/4090 (5.2%)	0.80 (0.660.98)	20%	0.03
Hospitalization for Unstable Angina	-	108/4089 (2.6%)	157/4090 (3.8%)	0.68 (0.53-0.87)	32%▼	0.002
Fatal or Nonfatal Stroke	_	98/4089 (2.4%)	134/4090 (3.3%)	0.72 (0.55-0.93)	28% ¥	0.01
Total Mortality, Nonfatal Myocardial Infarction, or Nonfatal Stroke		549/4089 (13.4%)	690/4090 (16.9%)	0.77 (0.69-0.86)	23%▼	<0.001
Total Mortality	-	274/4089 (6.7%)	310/4090 (7.6%)	0.87 (0.74-1.02)	13%▼	0.09
0.4 Icosapent Ethyl Bette natt DL, Steg PG, Miller M, et al. <i>N Engl J Med.</i> 20		1.4 cebo Better Bhatt DL. AHA 201	8, Chicago.			

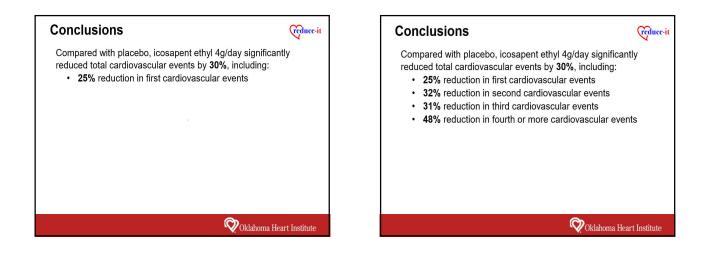








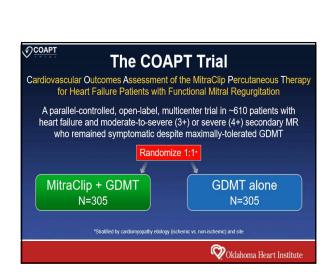


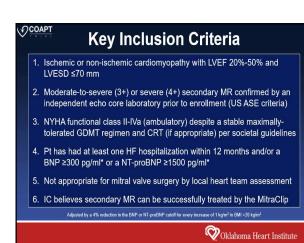




		Background (i)
A Randomized Trial o Leaflet Approximat Failure and Secon Gregg V On behalf of Michael Mack,	OAPT f Transcatheter Mitral Valve ion in Patients with Heart dary Mitral Regurgitation W. Stone, MD William Abraham, JoAnn Lindenfeld OAPT Investigators	 Pts with heart failure (HF) in whom mitral regurgitation (MR) develops secondary to left ventricular dysfunction have a poor prognosis, with reduced quality-of-life, frequent hospitalizations for heart failure and decreased survival There are no proven therapies for secondary MR in HF Guideline-directed medical therapy (GDMT) and cardiac resynchronization therapy (CRT) may provide symptomatic relief in some pts Whether correcting secondary MR improves the prognosis of pts with HF is unknown Surgery with a downsized annuloplasty ring has not been demonstrated to be beneficial for secondary MR, and has a high recurrence rate
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Background (ii)

By approximating the anterior and posterior

mitral leaflets and forming a double-orifice valve, the MitraClip device reduces MR

Registries have suggested that the MitraClip

is safe and may provide symptomatic benefit

effectiveness of transcatheter mitral leaflet

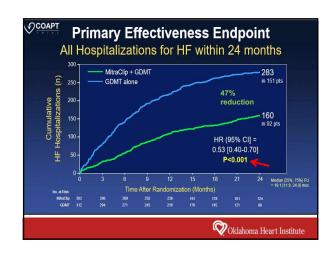
approximation in HF pts with secondary MR who remained symptomatic despite GDMT

to HF pts with secondary MR

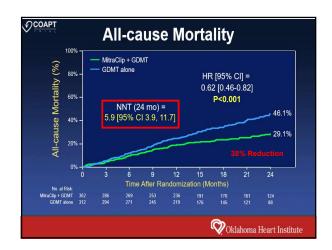
• We therefore performed the COAPT randomized trial to evaluate the safety and

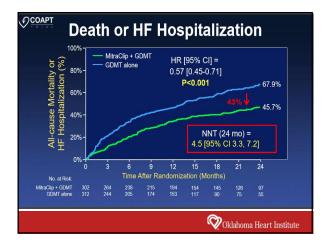
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COAPT



00% -	96.6%*		MitraClip procedure attempted	N=293
	94.8% [95% LCL]	Device-related complications	9 (3.4%)	
90% -		88% OPC	- Single leaflet device attachment	2 (0.7%)
30% - P4	D 40 004	- Device embolization	1 (0.3%)	
	P<0.001	- Endocarditis requiring surgery	0 (0.0%)	
70% -	rop/		- Mitral stenosis requiring surgery	0 (0.0%)
10% -		- Left ventricular assist device implant	3 (1.2%)	
60% -			- Heart transplant	2 (0.8%)
			 Any device-related complication requiring non-elective CV surgery 	1 (0.3%)
60% - 50% -			- Any device-related complication	





Subgroup	MitraClip + GDMT	GDMT alone	HR [95% CI]	HR [95% CI]	P (Int
All patients	45.7% (129)	67.9% (191)		0.57 [0.45, 0.71]	
Age (median) 274 years (n=317) Cr4 years (n=297) Sax	52.1% (78) 37.8% (51)	70.2% (100) 65.3% (91)		0.65 (0.48, 0.88) 0.47 (0.33, 0.66)	0.13
Female (n=221) Male (n=393)	43.2% (39) 47.1% (90)	59.4% (66) 73.0% (125)		0.60 [0.40, 0.89] 0.54 [0.41, 0.71]	0.76
Eliology of cardiomyopathy Ischemic (n=373) Non-ischemic (n=241)	48.1% (84) 41.1% (45)	70.0% (116) 65.2% (75)		0.57 [0.43, 0.76] 0.54 [0.37, 0.78]	0.79
Prior CRT Yes (n=224) No (n=390)	50.2% (55) 42.9% (74)	63.4% (69) 67.4% (122)		0.62 [0.44, 0.89] 0.53 [0.39, 0.71]	0.54
HF hospitalization within the prior year Yes (n=407) No (n=207)	44,7% (85) 47,6% (43)	67.9% (126) 67.8% (65)		0.56 [0.42, 0.73] 0.59 [0.40, 0.86]	0.79
Baseline NYHA class I or II (n=240) III (n=322) IV (n=51) STS replacement score	41, 1% (50) 46,6% (67) 68,3% (12)	66.9% (65) 65.3% (99) 84.4% (26)		0.56 (0.39, 0.81) 0.61 (0.44, 0.83) 0.56 (0.28, 1.12)	0.92
28% (n=262) c8% (n=352)	54.1% (65) 39.2% (64)	71.4% (88) 65.0% (103)		0.64 [0.46, 0.88] 0.51 [0.37, 0.70]	0.41
Surgical risk status* Fligh (n=423) Not high (n=188) Baseline MR grade	49.7% (95) 35.8% (32)	71.5% (140) 58.7% (51)		0.58 [0.45, 0.75] 0.51 [0.33, 0.80]	0.69
3+ (n=320) 4+ (n=293)	37.5% (51) 53.4% (78)	65.3% (100) 71.4% (91)		0.48 [0.34, 0.67] 0.62 [0.45, 0.83]	0.29
Baseline LVEF ×30% (median; n=301) <30% (median; n=274)	44.1% (62) 46.4% (56)	61.2% (85) 77.8% (99)	, <u> </u>	0.60 (0.43, 0.84) 0.46 (0.33, 0.64)	0.32
>40% (n=103) ≤40% (n=472) Baseline LVEDV (median)	49.7% (22) 44.2% (95)	58.2% (27) 71.9% (157)		0.67 [0.38, 1.17] 0.50 [0.39, 0.65]	0.31
<pre>>assime LVEDV (median) >181 mL (n=288) <181 mL (n=287)</pre>	48.9% (43) 41.5% (54)	68.0% (92) 69.5% (92)		0.58 (0.42, 0.80) 0.48 (0.34, 0.67)	0.42
KM time-to-first event rates "Central eligibility committee assessme	a	0.2	0.5 1 1.5 Favors MitraClip + GDMT Favors GDM	2.5 TT alone	
			© 0111	oma Heart I	

Conclusions

COAPT

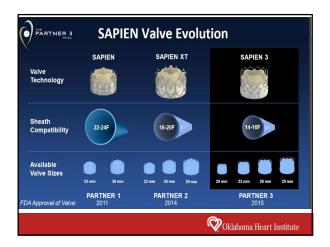
- In pts with HF and moderate-to-severe or severe secondary MR who remain symptomatic despite maximally-tolerated GDMT, transcatheter mitral leaflet approximation with the MitraClip was safe, provided durable reduction in MR, reduced the rate of HF hospitalizations, and improved survival, quality-of-life and functional capacity during 24-month follow-up
- As such, the MitraClip is the first therapy shown to improve the prognosis of patients with HF by reducing secondary MR due to LV dysfunction

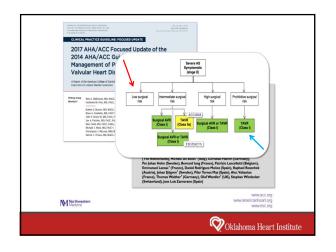
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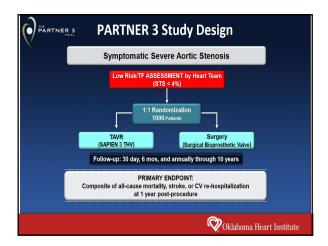


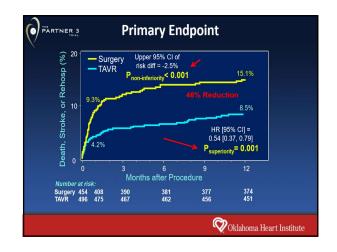


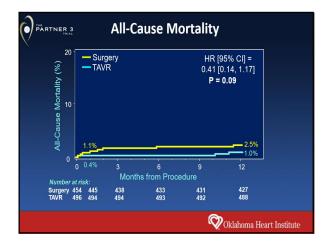


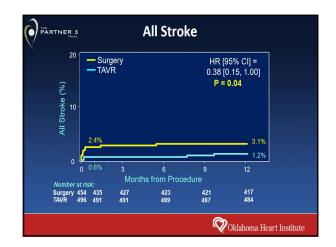






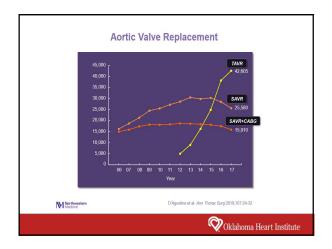


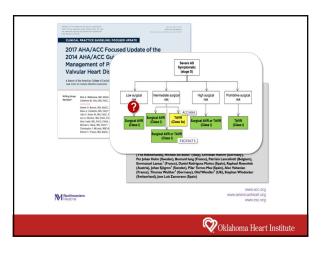


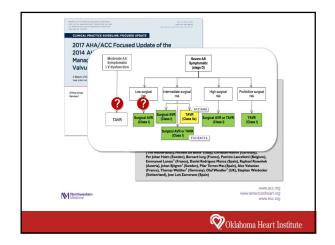






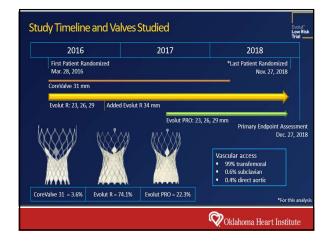


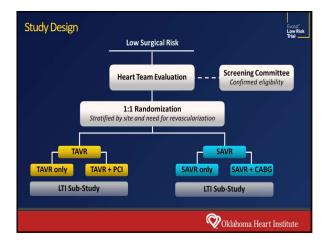


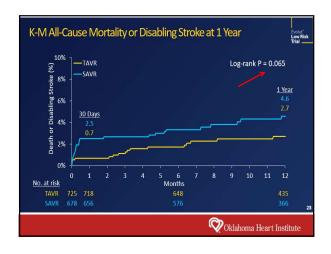


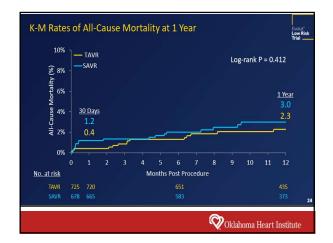
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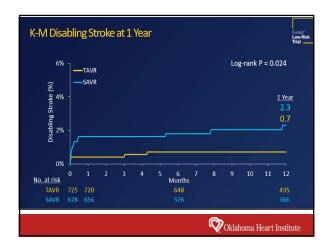


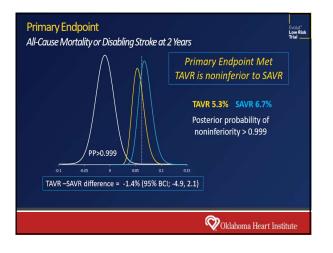














TAVR 2019 to The Future

- Is SAVR still the standard?
- Should TAVR now be available to low risk patients?
- Will it be difficult to withhold TAVR when patients want it over SAVR?
- Will TAVR have a role in patients with severe Aortic Stenosis but no symptoms?

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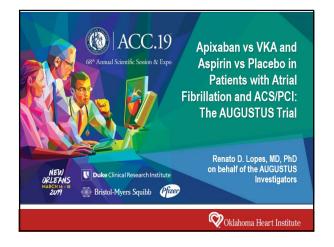


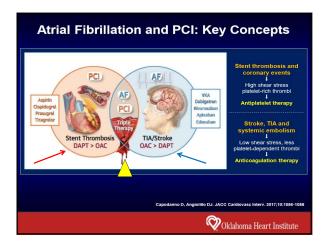
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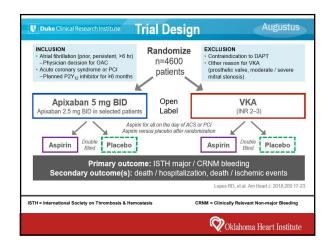
• Which one would you chose?

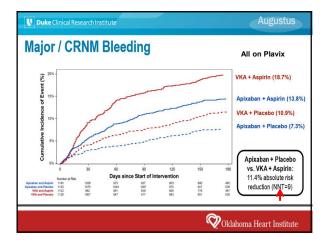
compared to SAVR.

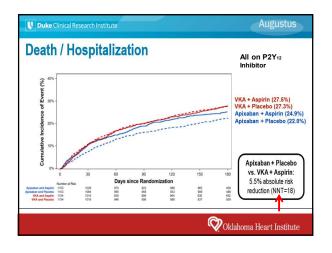
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Conclusion

Uuke Clinical Research Institute

In patients with atrial fibrillation and a recent acute coronary syndrome or PCI treated with a P2Y₁₂ inhibitor, an antithrombotic regimen that included apixaban, without aspirin, resulted in less bleeding and fewer hospitalizations without significant differences in ischemic events than regimens that included a vitamin K antagonist, aspirin, or both

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Augustus

Unical Research Institute

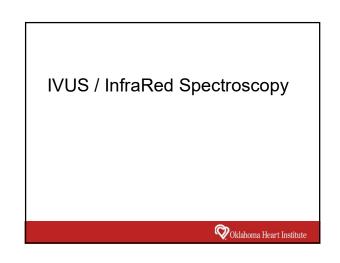
Clinical Implications

In most patients with atrial fibrillation and a recent acute coronary syndrome or PCI the use of apixaban plus clopidogrel without aspirin should be the preferred antithrombotic regimen whereas regimens that include a VKA plus DAPT should generally be avoided

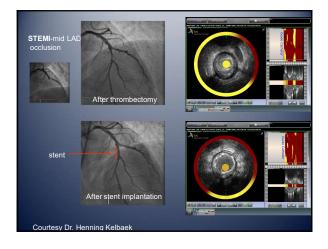
Woklahoma Heart Institute

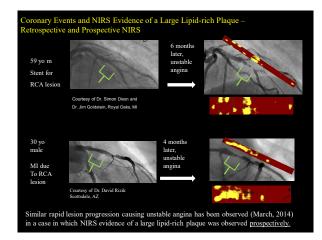
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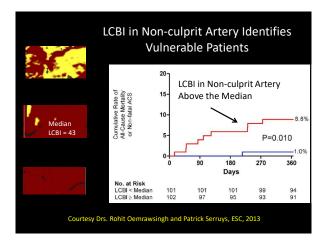


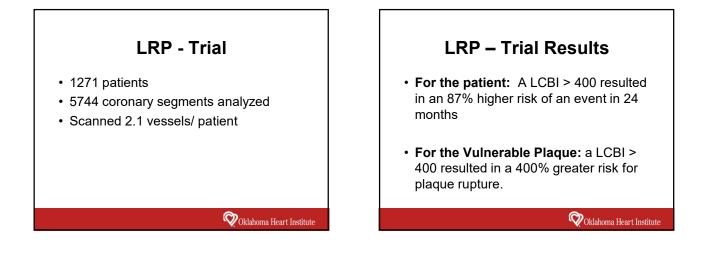


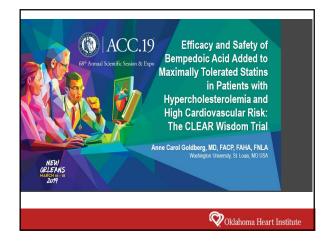


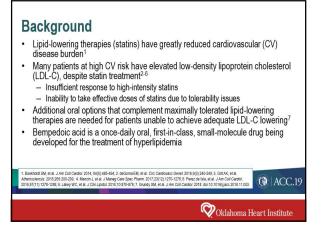


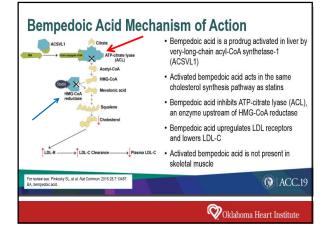


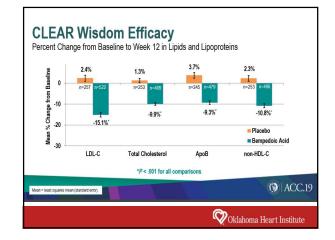




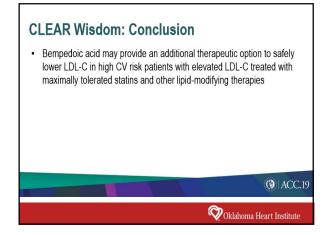


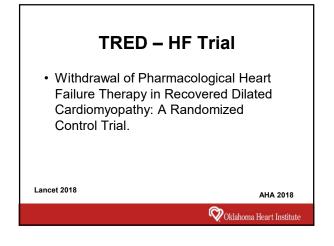






CLEAR Wisdom Summary: Safety CLEAR Wisdom Summary: Efficacy Bempedoic acid was safe and well tolerated when given as an · CLEAR Wisdom provides additional evidence that bempedoic acid is • efficacious in patients at high CV risk with hypercholesterolemia, despite adjunct to maximally tolerated statins receiving maximally tolerated statin therapy - AE profile of bempedoic acid was generally similar to that of placebo - Bempedoic acid reduced LDL-C at week 12 by 17.4% - Adjudicated major adverse CV events were 2% lower than placebo - Reductions in LDL-C were maintained for 52 weeks with bempedoic acid Bempedoic acid also significantly lowered non-HDL-C, apoB, total _ - No worsening of 12-week glycemic measurements in patients with a cholesterol, and hsCRP history of diabetes compared to placebo () ACC.19 () ACC.19 WOklahoma Heart Institute WOklahoma Heart Institute





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