HFrEF:Update – SGLT2 inhibitors – are we better at treating heart failure?

VINCE COLUCCI, PHARMD, BCPS (AQ-CARDIOLOGY), AACC, CPP



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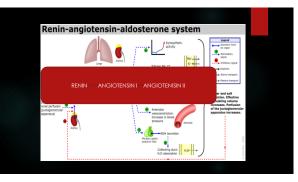
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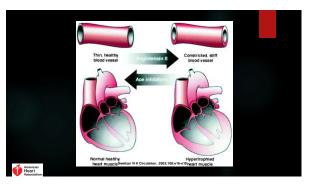
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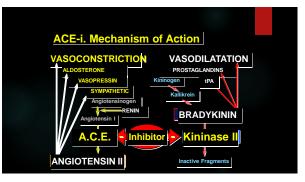
Learning Objectives

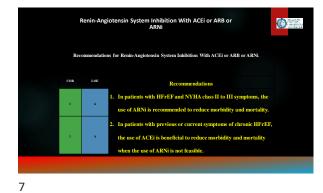
At the conclusion of this presentation, pharmacists will be able to:

- Explain the Guideline Directed Medical Therapy, Class I, Level of Evidence A (i.e., first-line drugs) to manage heart failure with reduced ejection fraction (HFrEF) patients in the outpatient setting
- 2. Develop a medication treatment plan and optimize the titration of the heart failure medications discussed in patients with a diagnosis of HFrEF

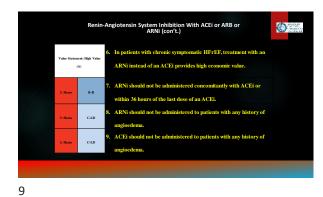


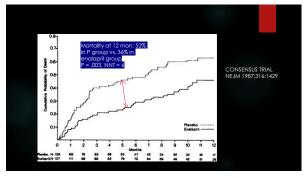


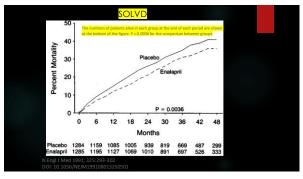


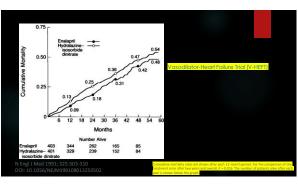


	Renir	ı-A	ngiotensin System Inhibition With ACEi or ARB or ARNi (con't.)	Contraction of the second
	А	3.	In patients with previous or current symptoms of chronic HFrEF who are intolerant to ACEI because of cough or angioedems and when the use of ARNi is not feasible, the use of ARB is recommended to reduce morbidity and mortality.	
Value Statement: High Value (A)			In patients with previous or current symptoms of chronic HFrEF, in whom ARNi is not feasible, treatment with an ACEi or ARB provides high economic value.	
i	B-R	5.	In patients with chronic symptomatic HFrEF NYHA class II or III who tolerate an ACEi or ARB, replacement by an ARNi is recommended to further reduce morbidity and mortality.	







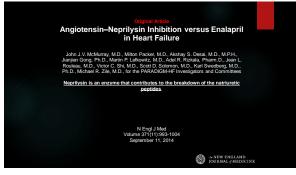


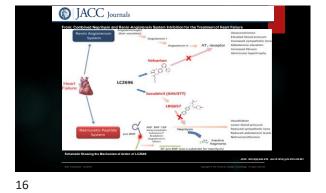
ACE-I. Contraindications

- Intolerance (angioedema, anuric renal fail.)
- Bilateral renal artery stenosis
- Pregnancy
- Renal insufficiency (creatinine > 3 mg/dl)
- Hyperkalemia (> 5.5 mmol/l)
- Severe hypotension

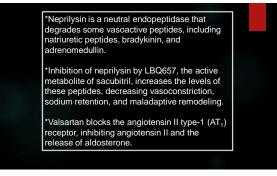
ACE Inhibitors Reduce Mortality and Hospifalizations in Patients With HF

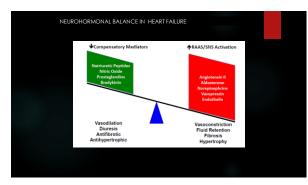
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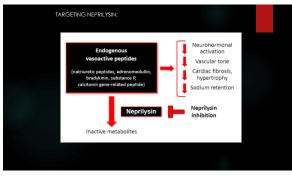


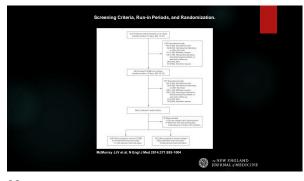




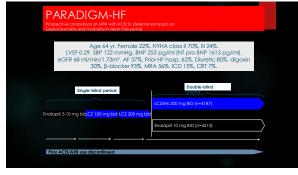




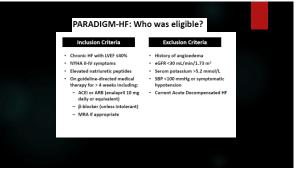




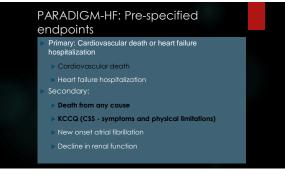








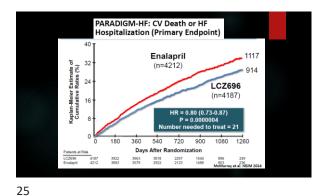
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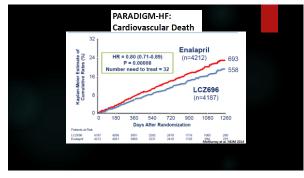


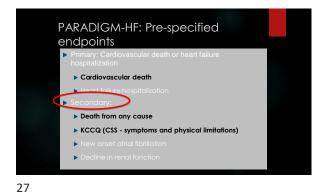
- PARADIGM-HF Trial (Approval of sacubitril/valsartan [*Entresto®*]): double-blind trial in 8442 patients with class II-IV heart failure and a reduced election fraction.
- reduced ejection fraction. • randomized to sacubitril 97 mg/valsartan 103 mg (*Entresto® 200mg*) twice daily or the ACE inhibitor enalapril (*Vasotec®*, and generics) 10 mg twice daily. both in addition to other HF druos.
- mg twice daily, both in addition to other HF drugs. • The study was stopped early because a prespecified interim analysis showed lower cardiovascular mortality in patients randomized to sacubitril/valsartan arm

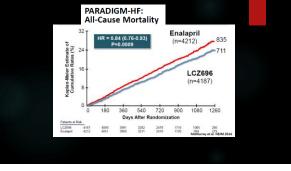
After a median follow-up of 27 months, the primary endpoint, a <u>composite</u> of first hospitalization for worsening heart failure or cardiovascular death, occurred in significantly fewer patients taking the combination product compared to those taking enalapril (21.8% vs 26.5%). The combination significantly reduced the risk of first hospitalization for worsening heart failure (12.8% vs 15.5%), death from cardiovascular causes (13.3% vs 16.5%), and all-cause mortality (17.0% vs 19.8%) It also slowed the progression of heart failure.

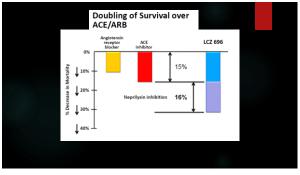
N Engl J Med 2014;371

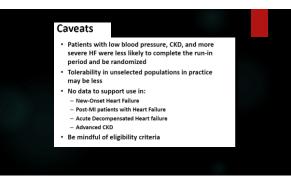


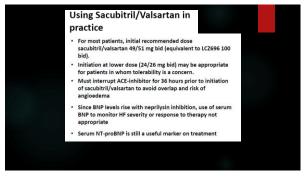


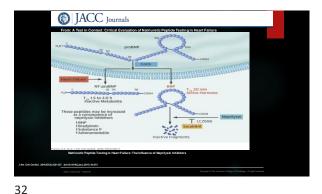


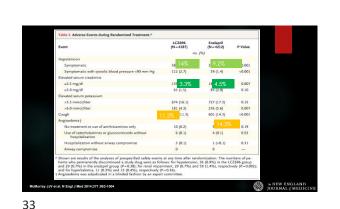




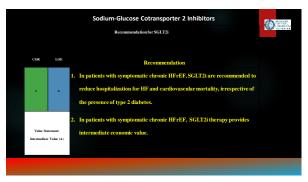


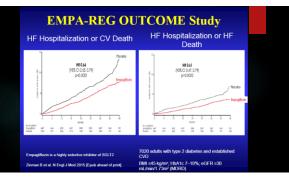


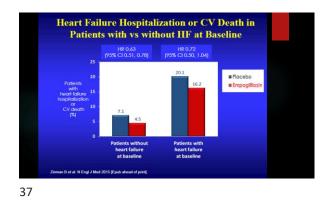


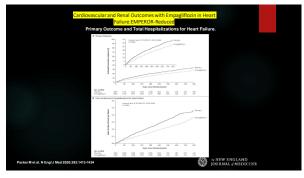


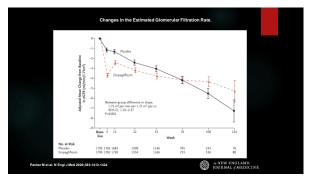
- The valsartan salt in sacubitril/valartan (S/V) approved product is different from the one in the brand *Diovan®*; 103 mg of valsartan in the *Entresto®* marketed product is equivalent to 160 mg of valsartan in the *Diovan®* product.
 The recommended starting descene of the S/V approved
- The recommended starting dosage of the S/V approved product is 49/51 mg twice daily. The dose should be titrated after 2-4 weeks as tolerated to reach the target maintenance dosage of 97/103 mg twice daily.
- maintee and 24 weeks as tolerated to reach the target maintenance dosage of 97/103 mg twice daily.
 ACE inhibitor treatment should be stopped for 36 hours before starting treatment S/V.
 For patients not currently taking an ACE inhibitor or an
- For patients not currently taking an ACE inhibitor or an ARB, or for those with severe renal impairment (eGFR <30 mL/min/1.73 m²) or moderate hepatic impairment, the starting dosage of S/V is 24/26 mg twice daily.
 The approved S/V product is not recommended for
- patients with severe hepatic impairment.

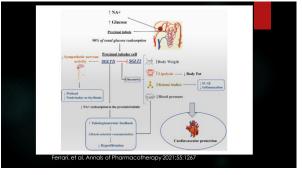


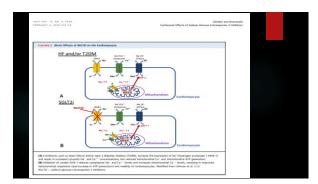


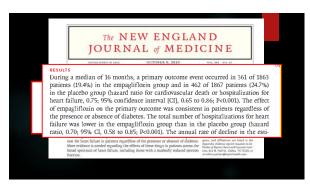
















 In this randomized, placebo-controlled trial, investigators evaluated the effects of the sodium–glucose cotransporter 2 inhibitor dapagliflozin in patients with heart failure and a reduced ejection fraction with or without type 2 diabetes.
 The risk of worsening heart failure or

Study Overview

 The risk of worsening heart failure or cardiovascular death was lower among those who received dapagliflozin, regardless of the presence or absence of diabetes.

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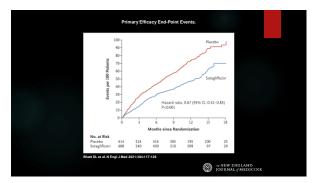
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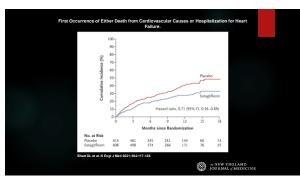
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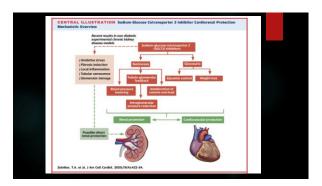
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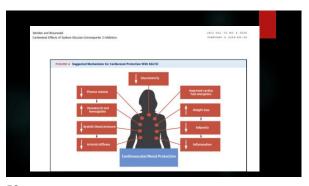


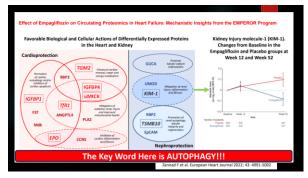


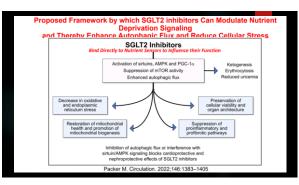


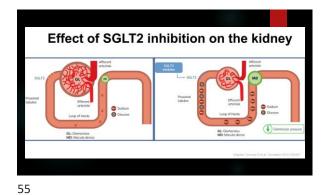


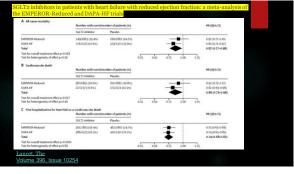


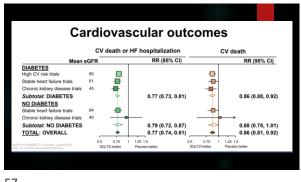




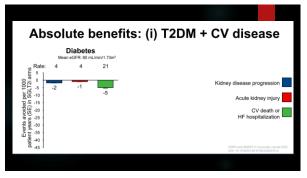


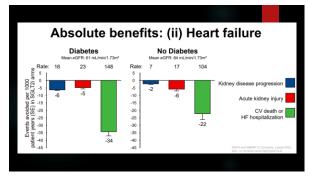


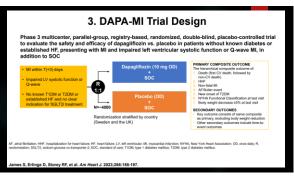


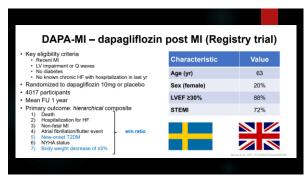




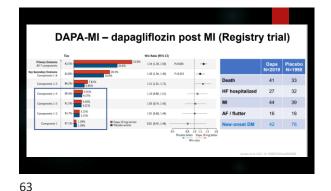




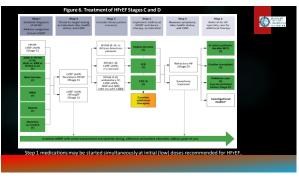


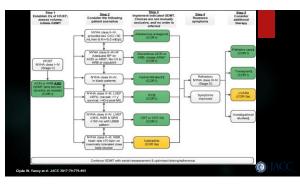


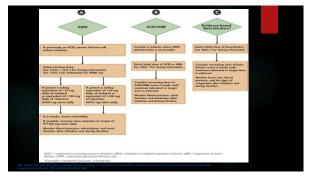
	Ties		Win Ratio (95% CI)				
Primary Outcome All 7 components	42.5%		32,9%	1.34 (1.20, 1.50)	P<0.001	-	
Key Secondary Outcome Components 1-6	62.8%-		20.3%	1.20 (1.04, 1.40)	P=0.015		
Components 1-5	86.2%-	7.81%		1.31 (1.01, 1.71)			
Components 1-4	90.4%-	5.01% 4.57%		1.10 (0.80, 1.51)	10-		
Components 1-3	91.5%-	4.34% 4.21%		1.03 (0.74, 1.45)	-		
Components 1-2	93.7%	3.15%		1.01 (0.68, 1.49)	-	+	
Component 1		29% 59%	 Dapa 10 mg winner Placebo winner 	0.81 (0.45, 1.46)			
					0.5 0.8 Placebo bett	1.0 1.2 1.5 er Dapa 10 mg be	
					-	Vin ratio	

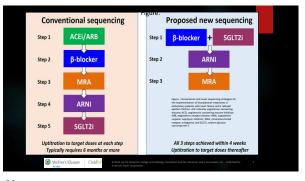


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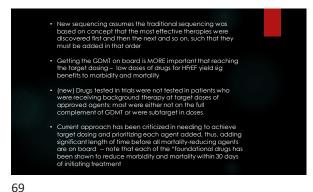


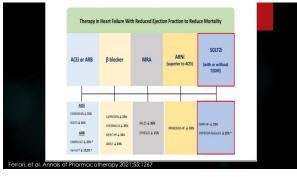




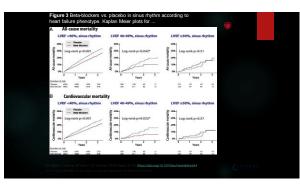


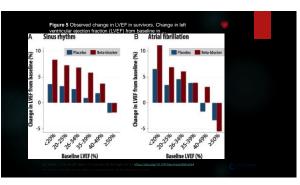




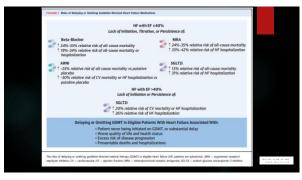


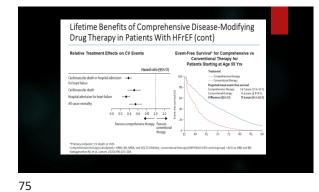












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