Supplementary Online Content

Gaziano TA, Fonarow GC, Velazquez EJ, Morrow DA, Braunwald E, Solomon SD. Cost-effectiveness analysis of sacubitri-valsartan in hospitalized patients who have heart failure with reduced ejection fraction. *JAMA Cardiol*. Published online August 12, 2020. doi:10.1001/jamacardio.2020.2822

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eReferences

This supplementary material has been provided by the authors to give readers additional information about their work

eTable 1. Comparison of Model Results With Trial and Community-Based Estimates.

	2-months		27-momths		5-year		
	Model	PIONEER-HF	Model	PARADIGM-HF	Model	Community Cohorts ^(1, 2)	
HF hospitalizations	14.20%	13.80%	62%	57.42%	NA	NA	
Mortality	3.40%	3.00%	21.28%	19.80%	43%	42%-54%	
1. Benjamin et al 2019 AHA Stats, Circ. 2. Roger, VL Epidemiology of Heart Failure, Circ Research							

eTable 2. Derivation of Number of Persons per Year Eligible for Heart Failure Treatment

Derivation	ns per year eligible	Source	
New HF diagnosis per year		1,000,000	AHA Stats
New HFrEF Annual Diagnosis	50%	500,000	AHA Stats
Admit rate	75%		
Newly Diagnosed HFrEF with inpatient admission		375,000	
Total HF Admissions		900,000	AHA Stats
HF Admissions for HFrEF	50%	450,000	AHA Stats
Newly Diagnosed HFrEF with inpatient admission	-375,000		
HF Admissions for HFrEF prior diagnosis	75,000		
% not on S/V	90%		
Previously Diagnosed HFrEF admission not on S/V		67,500	
Total of Newly and Previously Diagnosed HFrEF admi	ssion not on S/V	442,500	
Exclusions			Source
Hospice	4%	-17700	PARADIGN
Inotropes/VAD	1%	-4425	
ACEI/ARB CI	7%	-30975	
Low BP	5%	-22125	
otal persons per year eligible		367,275	

eTable 3. Annual Budget Impact at the Individual and National Levels

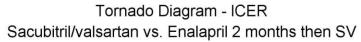
Individual L	evel				
	Strategy	Survival rate	Cost	Costs/Month Alive	Annual Savings*
	Enalapril Indefinitely	0.9253	\$17,390	\$1,566	
	Enalapril 2months, S/V outpatient	0.9316	\$17,893	\$1,601	-\$420
	S/V Inpatient initiation	0.9332	\$17,118	\$1,529	\$449
National Le	vel				
100% Up	take				
	Strategy	Hospital Costs** (Millions)	Medication Costs (Millions)	Total costs (Millions)	Annual Savings† (Millions)
	Enalapril Indefinitely	\$3,456	\$33	\$3,489	-
	Enalapril 2months, S/V outpatient	\$2,525	\$1,195	\$3,720	-\$231
	S/V Inpatient initiation	\$1,967	\$1,427	\$3,396	\$92
50% Upt	ake				-
	Enalapril Indefinitely	\$3,456	\$33	\$3,489	-
	Enalapril 2months, S/V outpatient	\$2,990	\$614	\$3,604	-\$115
	S/V Inpatient initiation	\$2,712	\$730	\$3,442	\$47

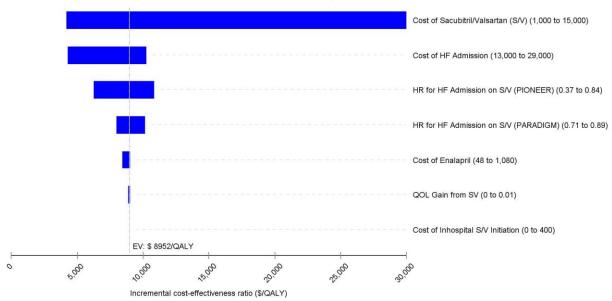
^{*} Per year alive compared to Enalapril indefinitely.

^{**} Hospital costs includes both HF and nonHF admissions. Costs for hospitalizations include both reimbursement rate †Compared to Enalapril indefinitely.

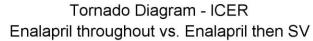
- * Per year alive compared to Enalapril indefinitely.
- ** Hospital costs includes both HF and nonHF admissions. Costs for hospitalizations include both reimbursement rates of Medicare and private insurance in proportion to the population. †Compared to Enalapril indefinitely.

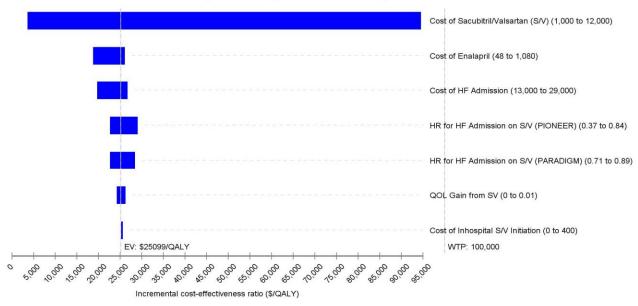
eFigure 1. One-Way Sensitivity Analyses Comparing Sacubitril/Valsartan Inpatient Versus Enalapril Inpatient Then Sacubitril/Valsartan as an Outpatient





eFigure 2. One-Way Sensitivity Analyses Comparing Enalapril Throughout Versus Enalapril Inpatient Then Sacubitril/Valsartan as an Outpatient





eReferences

- 1. Benjamin JE, Muntner SP, Alonso WA, Bittencourt PM, Callaway MC, Carson RA, et al. Heart Disease and Stroke Statistics—2019 Update: A Report From the American Heart Association. Circulation. 2019;139(10):e56-e66.
- 2. Roger LV. Epidemiology of Heart Failure. Circulation research. 2013;113(6):646-59.