

 **Spotlight on Special Topics**

REDUCTION OF UNNECESSARY HOSPITAL ADMISSIONS AND ER VISITS USING INTERREALITY CARE ON HIGH-RISK CHF-COPD PATIENTS AT MANAGED CARE SETTINGS

Poster Contributions
Posters Hall_Hall A
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Background: Reducing unnecessary hospital admission/ER visits on HMO/MSO/ACO pts is very challenging beyond traditional 30/90-day readmission threshold. Our study focused on expanding an Interreality (On-Site & On-Line) Care (IC) model (EHJ 2018;39:S225) in high-risk/cost, CHF/COPD pts in HMO setting.

Methods: IC was created by integrating: 1. On-Site Care: ARNP & testing at pts residency; 2. On-Line Care: 24/7 monitoring & specialty cardiology/pulmonary intervention; and 3. A new high-risk care system with telemedicine, device, monitoring, protocols & management. A group of 29 Medicare Advantage pts with multiple admission/ER visits (mean: 6/patient/year) were enrolled by MSO based on CHF/COPD & costs. Mean age was 76 (range 55-96) with 35% HFrEF. Admission/ER visits were normalized by total days of baseline and compared between IC and conventional care.

Results: IC showed not only lowered proBNP and a 96% total CHF/COPD Admission/ER, but also a 94% decrease for ALL admission/ER visits with net savings of \$1.29M.

Conclusion: To our knowledge, this is the 1st study to test IC on reducing admission/ER visits in high-risk/cost, CHF/COPD pts in HMO setting. Preliminary results show IC can improve both disease-specific (CHF/COPD) and overall quality of care along with costs. Compared to conventional analytics and administrative/financial models for unnecessary admissions, integrating new technologies to treat high-risk pts may deliver significant clinical and financial benefits to healthcare.

*P<0.01 compared to baseline		
	Conventional Care (Baseline)	Interreality Care 24/7 (IC)
# Admission/ER: Total	180	11*
# Admission/ER: CHF/COPD	49	2*
Normalized Admit/ER	1.3 ± 0.9	0.5 ± 0.9*
Hospital length of stay	9.2 ± 8.9	1.6 ± 3.3*
Total Cost	\$1,357,285.05	\$317,689*
proBNP	3,309.41 ± 3200.55	1,867.03 ± 1753.91*