

## Improving Health Outcomes, Reducing Costs and Increasing Insurance Reimbursements



### The Business Challenge.

Reduce the number of hospital readmissions for congestive heart failure (CHF) patients, thereby improving patient care, substantially decreasing costs (an average of \$60,000 per CHF readmission) and increasing Centers for Medicare and Medicaid Services (CMS) reimbursement rates for a US-based 18-hospital system.

### The Solution.

Unisys Advanced Analytics services to develop a Social Determinants of Health (SDoH) Readmission Risk model that determines 30-day readmission risk for individual CHF patients (incl. home/work environment, age, activity, income, diet, education, and access to care).

### Results and Benefits.

- Identified patients at risk of readmission with 78% accuracy, improving upon a clinical-only readmission predictive model that was 60% accurate
- Achieved the potential to decrease CHF costs by \$12M-\$24M annually (10-20%) for the four hospitals in the pilot program
- Gained a healthcare analytics platform that can include other disease states
- Enabled proactive care by identifying SDoH risk at an *individual* patient or member level

“The partnership with Unisys has enabled us to develop innovative advanced-analytics solutions that help our clients reduce cost and improve patient care.”

**Bill Pocklington**  
CEO, Bellrock Intelligence



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