

# CONGESTIVE HEART FAILURE

IMPROVING PATIENT CARE THROUGH ANALYTICS



**Improving the quality of timely medical interventions associated with CHF exacerbation can improve patient outcomes.**

Congestive Heart Failure (CHF) is a common chronic medical condition that is associated with complications and high mortality rates. This CHF analytic clinical solution will provide the necessary data elements clinically recommended to treat CHF exacerbation.

Congestive heart failure occurs when the heart function is unable to provide sufficient blood flow to the body. CHF hospital visits incur 4.4% mortality and 60% readmission rate. 5.1 million people in the United States have heart failure and about half die within five years of diagnosis.

This solution utilizes analytics to actually affect patient quality of care and clinical outcomes. It enables the business and clinicians to access appropriate information at appropriate times resulting in reductions in CHF mortality, length of stay, and administration improvements to timely measurements and follow-up appointments.

## ROI

- 60.0% reduction in mortality
- 56-minute reduction in median BNP turnaround
- 0.18-day reduction in length of stay
- 267% increase in order set utilization
- 2-hour reduction in time from door to diuretic
- 73% increase in daily weight documentation
- 22% increase in follow-up appointments

## WHAT IS IT?



- The program tracks the times of which medical interventions are performed.
- This data will help to identify potential barriers and trends in treatment plans once CHF exacerbation treatment begins.
- The improvement of CHF exacerbation treatment workflows impacts notable hospital KPI's such as length of stay, readmissions, and mortality rates.

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## CHF SOLUTION

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## OTHER SOLUTIONS

POKE-R

Blood Utilization

Pediatric Sepsis

Congestive Heart Failure

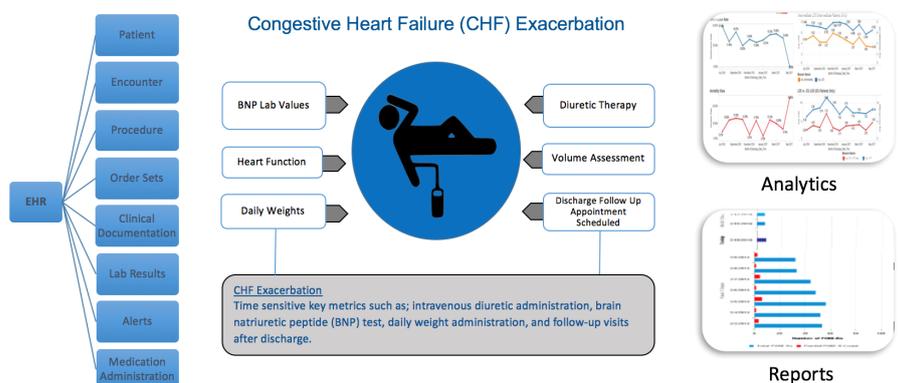
## SOLUTION BENEFITS

- Care path optimization
- Best practice alert management
- Complication avoidance and management
- Time to diuretic and BNP are key metrics
- Echos, urine analysis, etc. helps reducing cost.
- Daily weight management in an acute setting helps manage the disease better;
- Follow-up before discharge within 7 days helps lowering readmissions
- Weight management, line management, ambulation, fluid management

## RESULTS

One of our most important success criteria is user adoption. While we started with a pilot of five users, we now have 147 active users. Our dashboards have been viewed 31,027 times and are used regularly in clinical and operational meetings.

Our self-reporting initiative has had significant early success. Users have created their own reports and developed programs not mentioned here, including critical care daily goals. These were developed not by the IT analytics team but by the business users and quality department.



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