REDIVUS HEALTH

SEPSIS CARE TRANSFORMED
WITH REAL-TIME DECISION SUPPORT SOFTWARE

Sheridan County Hospital significantly improved sepsis care with a digital sepsis management tool that increases provider efficiency, improves diagnostic accuracy, and orchestrates care among providers.

> "Prior to 2017, we lacked both a proper sepsis screening tool as well as the ability to identify and document what we were finding. Redivus changed all that."
>
> — HANNAH SCHOENDALER, CHIEF NURSING OFFICER

CHALLENGE

Healthcare providers in every setting face the daunting task of trying to reach and sustain quality goals. There is no greater challenge in meeting these goals than tackling sepsis care. Sepsis identification is often missed or delayed because: 1) providers don't suspect sepsis, 2) diagnosis is complex, and 3) organizations lack a systematic approach. This problem is not unique to SCH or critical access hospitals – it's pervasive in hospitals of all sizes worldwide.

SCHC

The Road to Wellness in Northwest Kansas

SHERIDAN COUNTY HEALTH COMPLEX

Sheridan County Hospital is an 18-bed Critical Access Hospital in the Northwest Kansas community of Hoxie.

In 2016, SCH identified and treated 5 sepsis cases. According to CDC data, sepsis represents 6% of all hospitalizations nationally and SCH estimated they should have treated more than twice that number of patients. With a mission to "excel at providing quality healthcare close to home," they recognized that better sepsis care was a big opportunity.

SCH needed a new process to screen for sepsis using a tool that could help them standardize the way every provider identified sepsis. As with any change, they were concerned about adoption, investment in time and resources, and sustainability. There was the risk of stretching an already thin staff without realizing any demonstrable improvement in patient care.

Sepsis is responsible for over

270,000 DEATHS

annually in the U.S.

As many as

87%

of all sepsis cases originate in the community

SOLUTION

Despite the challenges and risks, Hannah Schoendaler (CNO) decided to act by starting a Quality Improvement initiative. Implementing a paper-based tool or using the EHR were the obvious alternatives, but Hannah chose Redivus Health's Sepsis solution to help improve sepsis care.

Within the first week of implementing Redivus, Hannah witnessed firsthand the problem, the solution, and the reward. A member of the Hoxie community visited the ER feeling very ill. One of the ER docs completed their assessment yet struggled to find a diagnosis. Following the new process, the ER nurse screened the patient for sepsis determining the patient met the criteria for severe sepsis. The ER doc first questioned the validity of the diagnosis, but after reviewing the screening result realized they had overlooked sepsis and agreed with the diagnosis. Interventions were started immediately and the patient quickly recovered without having to be transferred to a tertiary facility. This quick win was very helpful in reinforcing the need for a standardized screening process and helped solidify buy-in among staff.

Today SCH screens patients more efficiently, identifies more sepsis cases, and delivers treatment earlier. The combination of improved identification and increased treatment compliance not only saves lives, but also has a material impact on their bottom line. Efficient, accurate sepsis screening saves time and boosts the efficiency of staff. Early identification and treatment also allows SCH to keep patients at their facility increasing bed-days.

> "From a financial standpoint, anything that can disrupt a process can disrupt revenues. We looked at the patient care aspect of earlier sepsis detection, including days in the hospital, and it more than compensates for the financial investment in Redivus."
>
> — MICHAEL O'DELL, SCH CHIEF FINANCIAL OFFICER

RESULTS
SCH noticed immediate benefits in quality of care, patient outcomes, and revenue.

- Nearly **5X INCREASE IN SEPSIS CASES** identified over 2 years
- Interventions started **3 HOURS EARLIER** on average
- 3-hour bundle completed **ON TIME IN 100% OF PATIENTS**
- Overall bundle compliance **INCREASED 300%**: From 25% in 2017 to 75% in 2018
- Bed-days and revenue **INCREASED BY 360%**

FUTURE

The quality improvement fostered by Redivus has led SCH to a higher standard of care throughout their facility. Staying closer to home continues to bolster patient satisfaction knowing they are surrounded by staff and family within close proximity. Automated documentation has empowered clinicians to deliver evidence based guidance saving SCH staff time, reducing workloads and coordinating care proactively to manage patient outcomes.