



# Improving bloodstream infection (BSI) detection and management

## BSI impact

An estimated 1 in 5 deaths globally is related to sepsis.<sup>1</sup>



For a patient with sepsis, every hour counts.<sup>2</sup>

Antimicrobial treatment should be initiated quickly. Positive blood cultures can help clinicians determine appropriate treatment of septic patients. Identifying BSIs and treating symptoms quickly and effectively can impact sepsis-related mortality.<sup>3,4,5</sup>

In the U.S.:

**\$16-38K**  
average cost per sepsis case<sup>6</sup>

Sepsis is also among the most expensive conditions for hospitals to treat.

## Pressures on your lab

Early and accurate detection saves lives, but labs today face...

- Increasing test complexity and volume**
- Emerging threats: pandemics, antibiotic resistance, cyberattacks**
- Evolving challenges**  
Skilled personnel shortages, lean workforce, financial constraints

To address these BSI-related challenges, you may be:



Continuously training on blood collection due to staff turnover



Looking at causes of blood culture issues in isolation



Bringing in new instrumentation to address a specific need

Unfortunately, these initiatives can only take you so far and may reveal

**hidden risks.**

Relying on incremental improvements without considering the entire BSI testing process can:



Drive up costs ...



Negatively affect patient care<sup>7</sup>

## Look outside the lab

To get more **timely** and **accurate** blood culture results inside the lab, you also need to **look outside of the lab.**



## You need a 360° approach

that considers the interdependencies between blood collection, blood culture, and reporting.

- Improving execution and increasing accountability along the full diagnostic pathway**
- Accessing near-real-time visibility and advanced analytics to generate meaningful insights**
- Sharing insights and aligning functions to drive sustainable improvements**

When you take a **360-degree approach to BSI diagnostics**, you remove avoidable errors, variability, and process inefficiencies that burden your staff, consume your budget, and erode patient care.

To find out how you can make a difference by partnering with BD, visit [bd.com/BSI](http://bd.com/BSI).



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