# The impact of the two most common procedures: IV access and blood draws<sup>12</sup>

Current methods of IV access and blood draws may negatively impact patient and clinician satisfaction, which can hinder operational efficiency and costs.<sup>34</sup>



# The patient point of view



When **60-70% of clinical decisions are informed by blood collections**,<sup>5</sup> they become a necessary and frequent occurrence during hospital stays.<sup>6</sup>

### Almost every patient experiences IV access and blood draws.<sup>1,2</sup>



Up to **90%** of hospitalized patients in the U.S. require an IV catheter<sup>4</sup>

70%

Up to **70%** of all blood draws require venipuncture<sup>7</sup>

### Complications may arise during these common procedures

Ţ	Blood draws	Up to <b>1 in 3</b> patients are difficult sticks <sup>®</sup>	Multiple sticks contribute to venous depletion which may compromise access for blood sampling and treatment <sup>3</sup>	Sample errors are <b>75%</b> of lab errors; <b>26%</b> may have detrimental effects on patient care <sup>s</sup>
Ç	IV access	<b>35-50%</b> IV failure rate⁴	Patients average <b>1.7</b> IVs during a 3.5 day period due to IV failure <sup>4</sup>	Complications may include extravasation, thrombophlebitis, and bloodstream infections <sup>4</sup>

# The clinician perspective



Staff safety may impact job satisfaction,<sup>4</sup> and use of needles or sharps presents a risk for needlestick injuries.<sup>3</sup>



**385,000** needlestick and sharp injuries occur annually in the US, and injuries may be underreported<sup>10</sup>



**Risk of HBV, HCV, HIV, and more** increase from exposure to contaminated needlesticks and sharp injuries<sup>11</sup>

# Trickle down effect of clinical inefficiencies

IV restarts and redraws due to preanalytical errors may cause clinical workflow inefficiencies, decrease clinical quality and increase dissatisfaction.<sup>45</sup>



**Complications** and high failure rate may lead to multiple IV starts<sup>4</sup>

#### Poor sample

**quality** may result in redraws, unnecessary investigations, inappropriate treatment and increased length of stay<sup>5</sup>



Multiple needlesticks

may lead to venous depletion, compromising access for future care<sup>3</sup>



These **clinical inefficiencies** may

result in patient dissatisfaction and impact hospital bottom line<sup>3</sup>

# Operational and economic implications



Creating environments that foster a safe, comfortable patient experience is not only imperative for clinical outcomes and satisfaction, but also for your hospital's bottom line.<sup>12</sup>

# Drawing the line at excellent

Patient satisfaction scores are tied to hospital reimbursement. In fact, **profit margins are 62% lower for hospitals with "low" patient satisfaction scores** compared to those with "excellent" patient satisfaction scores.<sup>12</sup>

## The cost of status quo in blood draws and IV access

\$747 The median of direct and indirect costs for accidental needlestick injuries<sup>13</sup>



Post blood exposure management costs per reported exposure<sup>14</sup>

**Up to \$4,838** 

**ጓ \$980,000** 

The cost of avoidable IV complications in an average 200 bed hospital<sup>\*#4</sup>

### \$2.4 million

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The potential cost of preanalytical specimen errors for a hospital with \$200M operating expense<sup>"5</sup>

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\*Costs are estimated for a 200-bed U.S. hospital #Annual estimate for 100,000 catheters, with a 35% failure rate and a conservative \$28 average cost per IV insertion \*\*Math: \$200M operating expense x 1.2% = \$2.4M



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