

to delays in care. Despite the COVID-19 pandemic and the excitement of hosting the FIFA World Cup 2022™, our sepsis team remained resilient and committed to improving patient safety.<sup>2</sup> We aimed to improve patient safety through early sepsis recognition and management from 0% in December 2017 to 95% by the end of December 2022.

**Methods** We followed the Institute for Healthcare Improvement Model for Improvement, testing changes via Plan-Do-Study-Act (PDSA) cycles. The sepsis team established measurement frameworks, gathered local data on bundle compliance, and devised a Quality Improvement dashboard for monitoring. Implemented changes, such as the Sepsis Screening Tool, Laboratory Kit, Custom Order Set, E-Learning, Point of care blood gases machine, Unit Champions, Rewards, Weekly Reports, Coaching, and Technology, enhanced compliance. Figure 1 illustrates our bundle compliance from 2018 to 2022.

**Results** Our Sepsis team achieved 100%, sustaining this despite challenges like COVID-19 and the FIFA World Cup 2022™. Team commitment and communication were vital. Standardized sepsis recognition and management improved patient outcomes. Our developed screening tool was replicated in other Hamad Medical Corporation hospitals. Figures 1 and 2 show improvements in each of 6 elements of sepsis bundle over the project implementation.

**Conclusion** Our collaborative effort to achieve and sustain our 100% goal was challenging but rewarding. Key lessons from our change tests include timely information sharing, continuous follow-up with frontline staff, and teamwork. Effective communication and staff empowerment were crucial in overcoming obstacles.

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**Ethical Approval/IRB Statement** This is a quality improvement project approved by the hospital leadership to improve the care of our patients

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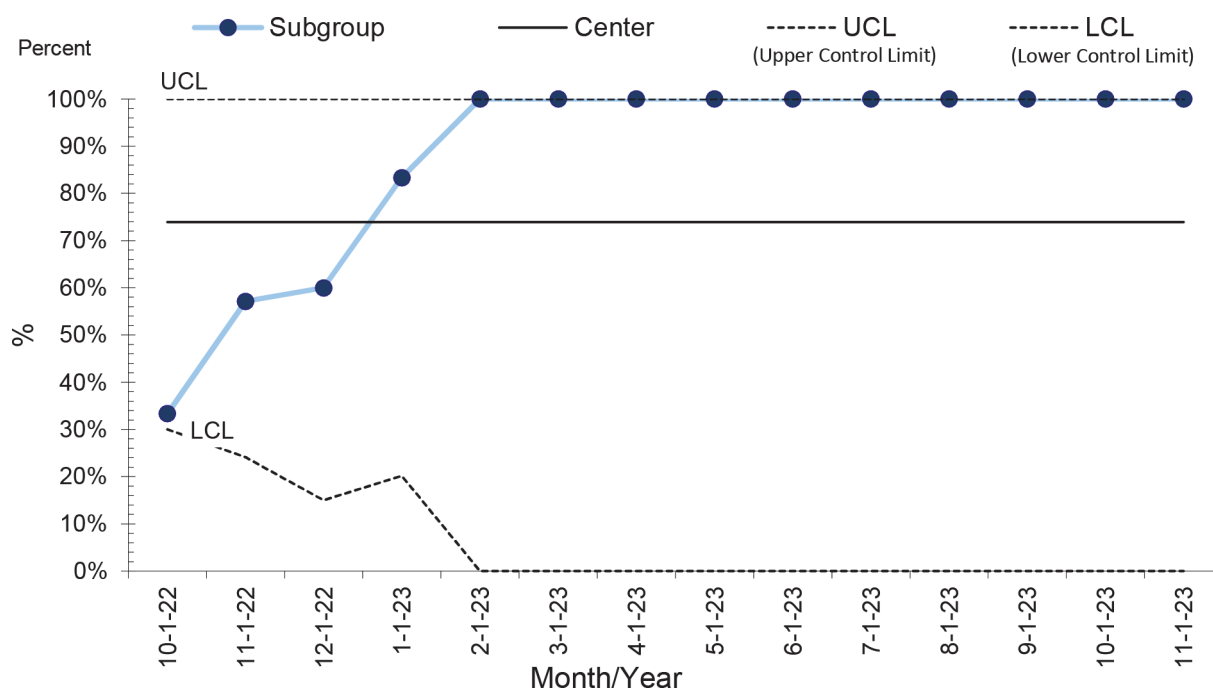
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## IMPROVING THALASSEMIA PATIENT CARE AND HEALTH CARE UTILIZATION WITH SIGNIFICANT COST REDUCTION

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**Background** Regular blood transfusion, a vital aspect of thalassemia patient care, inevitably leads to iron overload, posing a significant threat to the lives of these transfusion dependant patients by causing heart, liver, and organ damage.<sup>1</sup> Effective iron chelation stands as a lifesaving procedure in the management of such patients.<sup>2</sup> The evolution of iron chelation methods, particularly through intravenous (IV) or subcutaneous (SC) administration greatly enhanced patients' survival.<sup>3</sup> This quality improvement project aims to initiate selfcare chelation therapy via SC infusion pump from zero (baseline) to 20% (equal to 20 eligible patients) of our patients who had iron overload by March 2023 then to 40% by end of December 2023. The project also aimed to empower patients through



**Abstract 74 Figure 1** Percentage of eligible thalassemia patients on subcutaneous self-chelation therapy (P Chart) in 2022–2023