

in the store arrangement (figure 2), and using LEAN methodology to reduce waste and improve efficiency.

**Results** A cost reduction from QAR 87 to QAR 74 per patient day was achieved by December 2022 (figure 1). Our results indicate achievement of a 15% reduction in supply costs overall. The reduction during the initiative was being maintained despite the expanded bed capacity in 2022 and sustained through to mid-2023.

**Conclusion** We managed to cut costs while preserving high-quality treatment, then eliminate waste by making the most use of available resources, optimising store procedures, and utilising technology to facilitate efficient workflow. Spreading this accomplishment to the Paediatric Division units will be the next stage.

## REFERENCES

1. Abdulsalam Y, Schneller E. Hospital supply expenses: an important ingredient in health services research. *Medical Care Research and Review* [Internet]. 2019 Jul 24;76(2):240–52. Available from: <https://journals.sagepub.com/doi/10.1177/1077558717719928>
2. Pennic J. 5 Ways Supply Chain Can Reduce Rising Healthcare Costs [Internet]. Hitconsultant.net. 2014. Available from: <https://hitconsultant.net/2013/05/13/5-ways-supply-chain-can-reduce-rising-healthcare-costs/>
3. Sharek PJ, Parry G, Goldmann D, Bones K, Hackbarth A, Resar R, et al. Performance characteristics of a methodology to quantify adverse events over time in hospitalized patients. *Health Services Research* [Internet]. 2010 Aug 16;46(2):654–78. Available from: <https://onlinelibrary.wiley.com/doi/10.1111/j.1475-6773.2010.01156>

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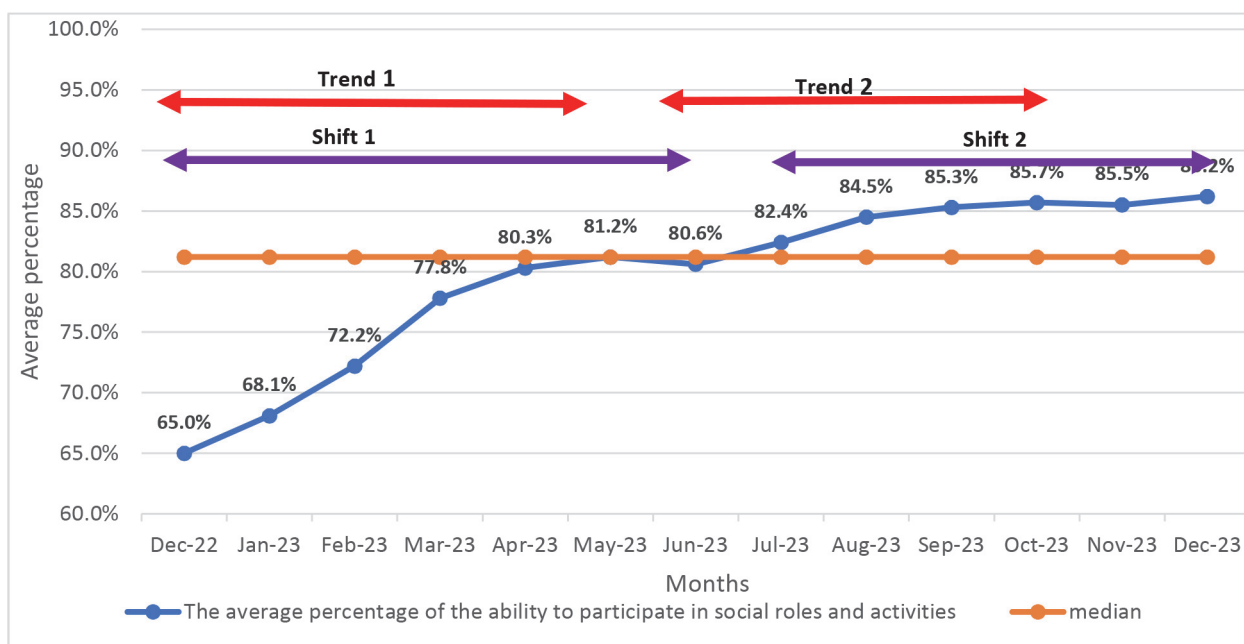
## REHABILITATION FOR SOCIAL INCLUSION: TAILORING TO PATIENT INTERESTS

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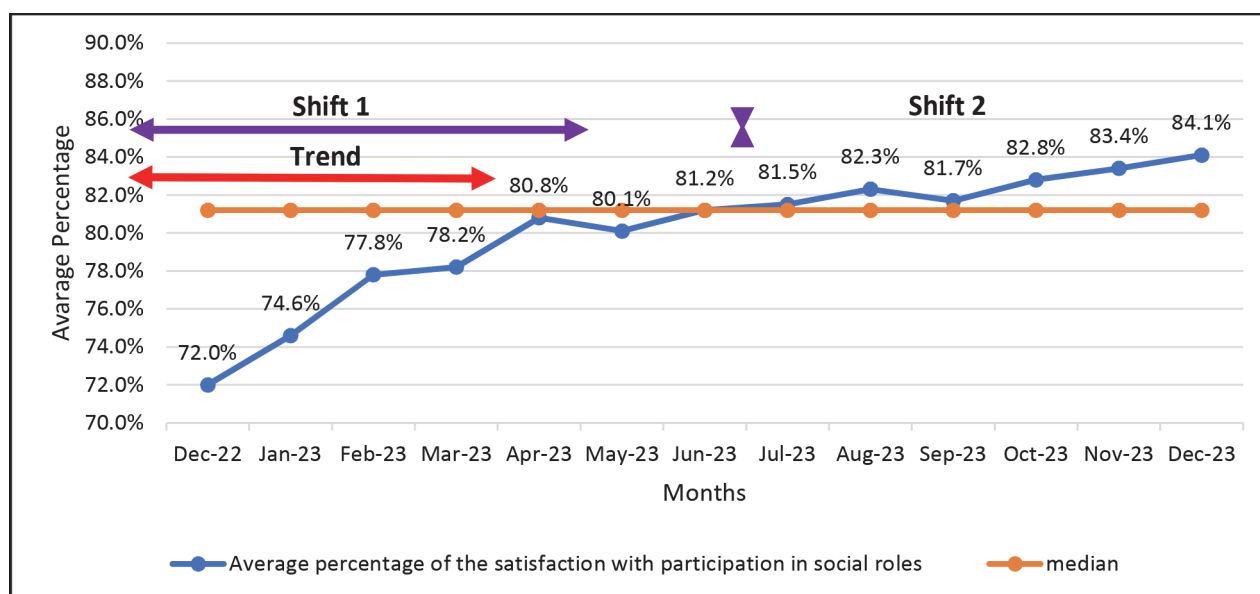
10.1136/bmjopen-2025-IHL43

**Background** Rehabilitating a person encompasses more than just their physical recovery as it also involves rekindling their enthusiasm for life.<sup>1</sup> Customizing rehabilitation programmes to a patient's hobbies and passions is a potent strategy to accomplish this. People who do this not only recover their physical abilities but also feel joy and purpose again in the things they love to do. This method not only makes them healthier, but also increases their social engagement, which builds relationships and a sense of community that is essential for general well-being. The project aimed to improve patients' ability to participate in social roles and activities from 65% in December 2022 to 80% by December 2022.

**Methods** After admission to the Adult Day-care Rehabilitation unit, patients filled an interest checklist to determine the rehabilitative activities which interests them. The rehabilitation programme was designed according to their interests which can include group activities for social interactions, and simulation for real-life situations and activities. At the end of the rehabilitation programme, patients filled two surveys; the Ability to participate in social roles and activities (Neuro-QOL



**Abstract 43 Figure 1** Patients' ability to participate in social roles and activities over the course of the rehabilitation project



**Abstract 43 Figure 2** Patients' average percentage of reported satisfaction level with participation in social roles

short form), the Satisfaction with Participation in social roles (PROMIS short form 8a).<sup>2</sup>

**Results** Our goal was to maintain the average percentage of participation in social roles and activities above 80% until the completion of the rehabilitation programme. Prior to implementing this practice, the average percentage of participation in social roles and activities was 65%. After that, it reached 86.2% (figure 1). Additionally, the average percentage of satisfaction with participation in social roles was 84.1% (figure 2). **Conclusion** Using the person-centred approach to rehabilitate patients according to their interests was successful to improve the ability to participate in social roles and activities since it increased 65% up to 80%.

## REFERENCES

1. Tamminga SJ, van Vree FM, Volker G, Roorda LD, Terwee CB, Goossens, PH; Vliet Vlieland, TP. Changes in the ability to participate in and satisfaction with social roles and activities in patients in outpatient rehabilitation. *Journal of Patient-Reported Outcomes* 2020;**4**(1). <https://doi.org/10.1186/s41687-020-00236-3>
2. Kozlowski AJ, Cella D, Nitsch KP, Heinemann AW. Evaluating individual change with the quality of life in neurological disorders (neuro-qol) short forms. *Archives of Physical Medicine and Rehabilitation*. 2016;**97**(4). <https://doi.org/10.1016/j.apmr.2015.12.010>
3. Cella D, Choi SW, Condon DM, Schalet B, Hays R, Rothrock NE, Yount S, Cook KF, Gershon RC, Amtmann D, DeWalt DA, Pilkonis PA, Stone AA, Weinfurt K, & Reeve B B. Promis® Adult health profiles: efficient short-form measures of seven health domains. *Value in Health* 2019;**22**(5):537–544. <https://doi.org/10.1016/j.jval.2019.02.004>

**Ethical Approval/IRB Statement** This project has been approved for publication by the Director of the Adult Day Rehabilitation Unit and the Quality and Safety Department of the Qatar Rehabilitation Institute, Doha, Qatar.

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## SAVING STAFF FROM STICKS: APPLYING THE COMPREHENSIVE UNIT-BASED SAFETY PROGRAM IN HAZM MEBAIREEK GENERAL HOSPITAL OPERATING THEATRE FOR NEEDLESTICK INJURY ELIMINATION

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**Background** Needlestick injury (NSI) is a recurrent and significant challenge in the Operating Theatre.<sup>1</sup> In Hazm Mebaireek General Hospital (HMGH) in 2022, at least one incident happened monthly, from July to November. Theatre personnel are at a significant risk for health and other consequences from these accidents.<sup>2</sup> Prophylactic treatment and post-exposure therapy costs represent a substantial financial burden on institutions.<sup>3</sup> Although they continue to happen, NSIs are preventable.<sup>1</sup> Targeting zero incidents is ambitious but necessary to keep everybody focused on doing what it takes to avert such occurrences. The aim of adapting and rolling out the Comprehensive Unit-based Safety Program (CUSP) is to identify and address the causes of and eliminate sharps and needlestick injuries in HMGH Operating Theatre by December 2023.