

## A solution for clinical hyperbaric facilities to easily standardize, track and document routine safety inspections: Checklist-based Digital Task Manager

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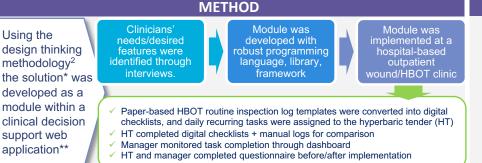
#### INTRODUCTION

Safe provision of hyperbaric oxygen therapy (HBOT) is a primary objective for any facility seeking excellence in care. HBOT safety relies on a comprehensive preventative maintenance program, which includes routine HBOT chamber inspections.

The Undersea and Hyperbaric Medical Society recommends that facilities keep maintenance/inspection logs for all hyperbaric equipment.<sup>1</sup> However, in practice such logs are often inconsistent and/or recorded on paper, which brings other challenges including lack of storage space, time-consuming record reviews, and lack of immediately actionable reports.

#### **OBJECTIVE**

To address these obstacles, we aimed to develop and implement a solution for HBOT facilities to easily standardize, track and document routine safety inspections.



#### RESULTS

stronger

of safety

The module helped standardize, track and document daily safety chamber checks through customized digital checklists assigned as recurring tasks and realtime actionable information.

213 tasks were completed in 3 months. Pre/post-questionnaires revealed that compared to paper-based logs, digital checklists:





#### CONCLUSIONS

A solution was developed for HBOT facilities to easily standardize, track and document routine safety inspections. Implementation resulted in significant time-savings compared to paper-based logs. In addition, the resulting accuracy in documentation and better understanding of accountability of responsibility may remarkably improve the environment of safety within hyperbaric programs.

### REFERENCES

- The Undersea and Hyperbaric Medical Society. Clinical Hyperbaric Facility Accreditation Manual Fourth Edition. 2018;
- 2. 2. Ferreira FK, Song EH, Gomes H, Garcia EB, Ferreira LM. New mindset in scientific method in the health field: Design Thinking. Clinics. 2015 Dec 10;70(12):770-2.

#### ACKNOWLEDGEMENT



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