Adverse events reporting at naturopathy clinical settings: importance of accreditation systems in improving quality of care and patient safety

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INTRODUCTION

The popularity of complementary and alternative medicine (CAM) is growing across the globe, with a growing number of patients using these services as adjuvant care for their ailments. Unlike conventional medicine, reports on adverse events during or after CAM interventions are scarce. This may be due to limited awareness or under-reporting of adverse events by CAM practitioners and/or patients.1 Yoga and naturopathy is one among the CAM systems which use non-invasive techniques (except acupuncture and enema) such as hydrotherapy, fasting, sun exposure, mud therapy, etc to manage various diseases.2

Yoga and naturopathy physicians promote this system of medicine as a system without any potential side effects. At the same time, due to the nature of therapies used in naturopathy settings such as heat therapies, acupuncture, water therapies (packs and baths), sun exposure etc, there is always a likelihood of developing potential adverse events like burns, infections, needle stick injuries, etc. Reporting these events can help in improving quality and ensuring patient safety while implementing CAM protocols. However, there were no exclusive safety/quality systems developed in India until 2009 for yoga and naturopathy, after which the National Accreditation Board for Hospitals & Healthcare Providers (NABH) started accrediting yoga and naturopathy hospitals after evaluating their quality and patient safety measure standards.3

METHODS

In April 2020, Sant Hirdaram Yoga and Nature Cure Hospital (Madhya Pradesh, India) became the first yoga and naturopathy medical college and teaching hospital to be accredited by NABH in India. We implemented an incidence monitoring mechanism as a part of our quality improvement protocol as per the standards of NABH accreditation.3 All the medical and non-medical staff involved in patient care were instructed to report all the events under the categories adverse events, treatment errors, near-miss events and sentinel events. The quality control committee examined the reported events, and appropriate quality improvement steps were introduced after analysing the root cause. The present report summarises the adverse events, treatment errors, and near-miss events identified and the quality improvement achieved as a result of adherence to NABH protocols. Figure 1 depicts the flow of events in incidence reporting and the quality improvement process.

RESULTS

There were a total of 22 adverse events, 5 treatment errors and 5 near-miss events identified from April 2020 through August 2022 from a total population of 27237 patients who underwent yoga and naturopathy therapies. Burn injuries were the most frequently reported adverse event, followed by allergic reactions to massage therapy oils, syncope, giddiness and vomiting. Online supplemental table 1 outlines the detailed adverse events, treatment errors and near-miss events reported during the year, April 2020 to August 2022. On investigation, problem areas like lack of adherence—to treatment protocols, Standard Operating procedures, lack of patient education about protocols, etc—were identified as the root cause (online supplemental table 1).

DISCUSSION

This is the first-ever report on adverse events and prospective quality improvement
achieved by a yoga and naturopathy medical college and its teaching hospital accredited with NABH. These incidence reports collected over a period of time helped us in developing newer insights on quality improvement, identifying the vulnerable areas and improving clinical governance, which was never the case before NABH accreditation. Additionally, due to the improvement in quality metrics, our hospital was also empanelled to treat central government employees under central government governance, which was never the case before NABH accreditation. Moreover, quality improvement and patient safety should be the primary goals of any hospital, as millions of patients succumb to disabilities, life-threatening events or death every year due to unwarranted medical practice.  

There are approximately 5000 yoga and naturopathy hospitals/medical colleges/clinics in India, however, as per the NABH database as of August 2022, only 9 yoga and naturopathy hospitals are accredited by NABH. This indicates a large scope for improvement in the quality and patient safety goals among yoga and naturopathy hospitals. Further, the observations from this report are very encouraging to incorporate NABH accreditation as a quality improvement goal for all yoga and naturopathy settings, as NABH accreditation is a public endorsement of quality healthcare service in India. Nevertheless, this may also help in identifying new avenues of quality improvement in less explored CAM systems like yoga and naturopathy.

**REFERENCES**