



Algorithmic Disparity and Decompression Safety: A Theoretical Analysis of Dive Computer Choice for Technical Wreck Diving on the SS Thistlegorm, Namibia

Kaino Shilongo¹

¹ Department of Public Health, University of Namibia (UNAM)

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Correspondence: kshilongo@outlook.com

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Author notes

Kaino Shilongo is affiliated with Department of Public Health, University of Namibia (UNAM) and focuses on Medicine research in Africa.

Abstract

This study addresses a current research gap in Medicine concerning The impact of dive computer algorithm choice on no-decompression limits and safety margins for technical wreck divers in the SS Thistlegorm in Namibia. The objective is to clarify key debates, identify practical implications, and outline a focused agenda for scholarship and policy. A qualitative approach was used, drawing on recent literature and policy sources to frame the analysis. This abstract is primarily indicative, outlining the scope and conceptual framing rather than reporting empirical results. The paper argues for context-specific approaches and stronger empirical foundations in future research. Stakeholders should prioritise inclusive, locally grounded strategies and improve data transparency. The impact of dive computer algorithm choice on no-decompression limits and safety margins for technical wreck divers in the SS Thistlegorm, Namibia, Africa, Medicine, theoretical This structured abstract provides a standardised summary to support rapid screening, indexing, and assessment of scholarly contribution.

Keywords: *Decompression theory, Technical diving, Wreck diving, Southern African coast, Algorithmic bias, No-decompression limits, Hyperbaric medicine*

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