OVERVIEW

INTRODUCTION

The healthcare industry is increasingly recognizing the urgent need to address environmental sustainability as a critical component of patient care, operational efficiency, and organizational stewardship. Healthcare systems contribute significantly to greenhouse gas emissions, waste generation, and resource consumption, creating unintended environmental and public health consequences. At the same time, informatics professionals are uniquely positioned to help healthcare organizations measure, monitor, analyze, and improve sustainability efforts through data-driven strategies, workflow optimization, analytics, clinical decision support, and emerging technologies such as artificial intelligence.

The AMIA microcredential on Environmental Sustainability Informatics in Healthcare provides learners with practical knowledge and applied informatics approaches to advance sustainability initiatives across healthcare systems. Through real-world case studies, interdisciplinary collaboration, and applied implementation strategies, participants will explore how informatics can support decarbonization, sustainable operations, resilient healthcare systems, and climate-informed clinical decision-making. This microcredential is designed to equip healthcare professionals, informaticians, and organizational leaders with actionable tools to operationalize sustainability initiatives that improve both environmental and patient outcomes.

COURSE OVERVIEW

LAUNCH DATE: November 3, 2026

EXPIRATION DATE: November 3, 2029

DURATION: 900 minutes (15 hours)

TITLE
AMIA Microcredential on Environmental Sustainability Informatics in Healthcare

STATEMENT OF PURPOSE
The Advancing Stewardship Through Informatics: A Practical Course for Sustainability in Healthcare Organizations microcredential is an asynchronous online educational program focused on the intersection of healthcare sustainability, informatics, artificial intelligence, clinical workflows, and organizational transformation. Learners will examine how informatics tools, data systems, analytics, carbon accounting, clinical decision support, and telehealth can support sustainability initiatives across healthcare environments.

The course explores key sustainability domains including energy use, supply chain management, telehealth, AI-enabled sustainability strategies, carbon accounting software, clinical decision-making, workforce mobilization, implementation science, and healthcare system resilience. Participants will engage with practical examples, case studies, implementation frameworks, and interdisciplinary perspectives that demonstrate how healthcare organizations can reduce environmental impact while maintaining high-quality patient care and operational performance. Upon successful completion of all modules and assessments, participants will earn an AMIA microcredential in Environmental Sustainability Informatics in Healthcare.

GLOBAL LEARNING OBJECTIVES

1. Evaluate how informatics tools, data systems, analytics, and clinical decision support can be leveraged to measure, monitor, and advance sustainability initiatives across healthcare organizations.
2. Design and recommend sustainability-focused interventions that improve operational efficiency, reduce healthcare-related emissions, and support high-quality patient care through evidence-based informatics strategies.
3. Apply interdisciplinary implementation, governance, and change management approaches to support climate resilience, sustainable healthcare operations, and organizational decision-making using healthcare sustainability data and emerging technologies.

TARGET AUDIENCE

This program is designed for healthcare professionals and organizational leaders interested in advancing environmental sustainability initiatives through informatics and data-driven strategies, including:

- Clinical informaticians
- Physicians and advanced practice providers
- Nurses and nurse informaticists
- Pharmacists
- Public health professionals
- Healthcare administrators and executives
- Clinical operations and quality improvement leaders
- Health IT professionals and data analysts
- Sustainability officers and environmental health leaders
- Researchers, educators, and students interested in healthcare sustainability and climate-informed health systems

The course is also appropriate for individuals with limited prior informatics experience who are seeking to understand how informatics tools and healthcare data can support organizational sustainability initiatives and climate resilience efforts.

ACKNOWLEDGEMENT OF SUPPORT

No commercial support (funding from a governmental agency, ineligible company or in-kind donation) was received for this activity.

CRITERIA FOR SUCCESSFUL COMPLETION

Completion of this enduring material requires completing all seven modules and submitting the end-of-course evaluation survey.

After submitting the evaluation, learners may claim credit and download their certificate. To receive the microcredential badge, learners must complete all seven modules.

ACCME ACCREDITATION STATEMENT

The American Medical Informatics Association is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

DESIGNATION STATEMENT

The American Medical Informatics Association designates this Enduring activity for a maximum of **15** *AMA PRA Category 1 Credit*(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ANCC ACCREDITATION STATEMENT

The American Medical Informatics Association is accredited as a provider of nursing continuing professional development by the American Nurses Credentialing Center's Commission on Accreditation.

NURSE PLANNER (Content): Victoria Tiase, PhD, RN

Approved Contact Hours: 15

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The planning committee and reviewers reported that they have no relevant financial relationship(s) with ineligible companies to disclose.

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- **Cassandra Thiel, PhD** – Ambu; Consultant/Advisor/BOD, Philips; Consultant/Advisor/BOD, Independent contractor, including contracted research, Steris; Consultant/Advisor/BOD, Kimberley Clark; Consultant/Advisor/BOD.

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The following presenters and content reviewers have no relevant financial relationship(s) with ineligible companies to disclose.

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