INPLASY PROTOCOL

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Support: **None.**

Review Stage at time of this submission: **Completed but not published.**

Conflicts of interest:
None declared.

A Scoping Review of Metaverse in Emergency Medicine

Wu, T[1]; Ho, C[2].

Review question / Objective: **The growing role of metaverse in several fields recently. To follow-up with the emerging trend of metaverse and understand its probable application in the future, we aim to comprehend its applicability in the emergency medicine field. We explored information from the metaverse roadmap and hope to discover the status of these technologies in acute care medicine.**
Condition being studied: **Our review examined the published articles pertaining to the concept of metaverse roadmap and classified the result. The metaverse roadmap included AR, VR, lifelogging and mirror world.**

INPLASY registration number: This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 28 May 2022 and was last updated on 28 May 2022 (registration number INPLASY202250159).

INTRODUCTION

Review question / Objective: **The growing role of metaverse in several fields recently. To follow-up with the emerging trend of metaverse and understand its probable application in the future, we aim to comprehend its applicability in the emergency medicine field. We explored information from the metaverse roadmap and hope to discover the status of these technologies in acute care medicine.**

Rationale: **Scoping review according to the Preferred Reporting for Systematic**

Reviews and Meta-Analysis Extension for Scoping Reviews guidelines

Condition being studied: Our review examined the published articles pertaining to the concept of metaverse roadmap and classified the result. The metaverse roadmap included AR, VR, lifelogging and mirror world.

METHODS

Search strategy: PubMed search on January 15, 2022, The search terms were as follows: 1. (Augmented Reality) AND (Emergency medicine), 2. (Virtual Reality) AND (Emergency Medicine), 3. (Lifelogging), and 4. (Mirror world).

Participant or population: Emergency care system, acute care system.

Intervention: Metaverse roadmap.

Comparator: Not applicable.

Study designs to be included: No limitation.

Eligibility criteria: Not focus on emergency medicine were excluded. Literature not written in English or not available in full texts wereexcluded

Information sources: All from PubMed database.

Main outcome(s): • Metaverse provides opportunities with high immersive and interactive experiences. • Metaverse roadmap includes AR, lifelogging, mirror world, and VR. • Metaverse is being applied and developed for the field of emergency medicine.

Quality assessment / Risk of bias analysis: Not applicable.

Strategy of data synthesis: Topic classification.

Subgroup analysis: Topic classification and metaverse rodadmap.

Sensitivity analysis: Not applicable.

Language: English limited.

Country(ies) involved: Taiwan.

Keywords: Metaverse, Emergency medicine, Virtual reality, Augmented reality, Mirror world, Lifelogging.

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