Plan Overview

A Data Management Plan created using DMPonline

Title: Gamifying The Patient Journey to Improve Health Outcomes in Low-and-Middle Income Countries: A Scoping Review

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Gamifying The Patient Journey to Improve Health Outcomes in Low-and-Middle Income Countries: A Scoping Review

Section 1: Sourcing and Collecting Data

1.1 Briefly describe the primary (original) data you intend to collect or create for this project.

Qualitative data will be collected through virtual interviews using a **semi-structured guide** to explore key themes identified in the scoping review (e.g. gamification strategies, outcomes, barriers in LMICs), elaborate on implementation experiences, and validate findings from the literature. The guide will include **open-ended questions** about: (1) experts' perceptions of gamification in patient journeys; (2) context-specific challenges; (3) alignment with motivational theories; and (4) missing themes or emerging opportunities. The **unit of analysis** is a person.

As the PI, I will conduct the interviews myself using either Microsoft Teams or Zoom, and will record the responses on a Google Form. If the interview is recorded, I will use the recording transcript to verify the recorded responses. I will interview a maximum of 10 subject matter experts in the fields on global and digital health, largely recruited from my extensive professional network. No sensitive personal data will be collected.

All data, which will be predominantly textual, will total under 100 MB, with no audio or video files anticipated.

1.2 Note any known secondary data sources which could potentially be utilized for this project. Include the location, owner/creator, format, and licence or terms of use.

Using defined search terms, systematic searches will be conducted in multiple electronic databases including but not limited to PubMed, Scopus, PLOS journals, The Lancet, BMJ Global Health, JMIR, and Google Scholar. Searches will be limited to English-language, peer-reviewed articles published between January 2010, and May 2025, to capture the last 15 years of literature. Inclusion and exclusion criteria will be defined to ensure that relevant studies are selected for review. A standardized data extraction form with appropriately defined variables for will be used for charting the data.

Additional secondary data will include **Bibliographic details** (titles, authors, dates, journals), **screening logs** with inclusion/exclusion rationales, structured **data-extraction matrices** covering gamification strategies, technologies, populations, health outcomes, and LMIC contexts, **thematic codes** derived inductively and deductively, and **PRISMA flow-chart statistics**.

All data, which will be predominantly textual and tabular, will total under 2 GB, with no audio or video files anticipated.

Section 2: Storing Working Data

2.1 Where will the data (or material) you acquire, collect or create for this project be stored, while the project is underway? Use the Additional Information to outline the rationale for your choice, and any special considerations.

- University Network Filestore

Weekly encrypted local backups will also be used as secondary storage to protect against loss or lack of access to university's network in the event that internet connection is disrupted.

2.2 How will you manage and document the files to minimise the risk of data loss, and to ensure the data remains usable (if appropriate) after the project is completed?

Consistent file naming and **version control** will be employed. A **README file** and **data dictionaries** will document variables and code structures.

Section 3: Preserving Data After Project Completion

3.1 Where will your data (or material) be preserved after completion of your project, to align with Open Research principles where appropriate? Use the Additional Information box to outline your rationale, and any special considerations.

- University of Hull research data storage (currently Wasabi)

All final materials, complete with documentation and persistent identifiers (DOIs), will be **archived** for at least five years in the institutional repository.

3.2 What licence(s) will be appropriate for any data or material to which you hold the rights? Use the Additional Information box to outline your rationale, and any special considerations.

- CC-BY-NC

Additionally, the modified material must be licensed under identical terms.

3.3 Do you anticipate withholding access to your data or materials for a specified period after the completion of your project (an embargo)? If so, how long for, and why?

I intend to publish the outcomes of the research in a per reviewed journal after project completion. As such, I may withhold access to the material for not more than a year to allow for this.

Section 4: Making Your Data Discoverable

4.1 How will you ensure that your data is easily discoverable and citeable by future researchers?

The FAIR principles will be applied to ensure that the research data is accessible and re-usable beyond the project completion. A Digital Object Identifer (DOI) will be assigned where applicable. A data dictionary will be created as accompanying metadata to ensure that the data can be understood by anyone accessing it.

4.2 Are your datasets likely to be candidates for publication in a data journal? If so, outline your publication strategy, including target journal(s), timescale and author roles/responsibilities.

If permitted, a manuscript will be submitted to a high-impact journal (e.g., BMJ Global Health, The Lancet Digital Health, PLoS Digital Health, or JMIR, etc.) for publication. A conference abstract/poster will be proposed for major digital health and public health meetings, and an optional policy brief may distill recommendations for LMIC ministries of health and donors.

Section 5: Managing your Data Management Plan

5.1 Date of approval by Faculty Ethics Committee (if required)

Question not answered.

5.2 Who is responsible for ensuring that this Data Management Plan is followed, and kept under review as necessary?

As the Principal Investigator, I will be primarily responsible for ensuring that this DMP is followed and regularly reviewed during the life of the project

5.3 Review schedule (e.g. annually, at a specific stage of the project, or on a specific date):

Due to the short lifespan of the project, this DMP will be reviewed on a monthly basis.

5.4 Where will this Data Management Plan be preserved for future reference?

This DMP will be preserved in the University's Research Information System