

# INPLASY

## Knowledge, attitude and practice concerning osteoporosis: protocol of a systematic review of Malaysian studies

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### Corresponding author:

Cheong Lieng Teng

cheonglieng\_teng@imu.edu.my

### Author Affiliation:

International Medical University.

Teng, CL<sup>1</sup>; Mir, NA<sup>2</sup>; Chua, YJ<sup>3</sup>; Yap, DJR<sup>4</sup>; Chow, ZQ<sup>5</sup>; Choo, ZX<sup>6</sup>; Cheah, AK<sup>7</sup>.

### ADMINISTRATIVE INFORMATION

**Support** - International Medical University.

**Review Stage at time of this submission** - Preliminary searches.

**Conflicts of interest** - None declared.

**INPLASY registration number:** INPLASY202380065

**Amendments** - This protocol was registered with the International Platform of Registered Systematic Review and Meta-Analysis Protocols (INPLASY) on 15 August 2023 and was last updated on 15 August 2023.

## INTRODUCTION

**Review question / Objective** What is the knowledge, attitude and practices concerning osteoporosis among adults in Malaysia?

**Rationale** This study aims to document the level of osteoporosis knowledge, attitude and practices among adults in Malaysia. These data will assist future osteoporosis research and related interventional studies in Malaysia.

**Condition being studied** Osteoporosis knowledge, attitude and practice. Osteoporosis knowledge is the awareness of osteoporosis, its meaning and health implications. Attitude refers to feelings or opinions concerning the implication of osteoporosis and its detection or preventive methods. Practice refers to actions taken by the

participants to modify risk or implications of osteoporosis, such as dietary calcium or vitamin D intake and screening.

## METHODS

**Search strategy** We plan to search bibliographic databases for Malaysian quantitative studies that evaluated osteoporosis knowledge, attitude and practice using a specific questionnaire. Bibliographic search using MESH terms or keywords: Health knowledge, attitudes and practice; osteoporosis; Malaysia. There is no limit to the year of publication of included studies.

**Participant or population** Adults in Malaysia.

**Intervention** None.

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**Comparator** Subgroups (e.g., general population, specific population subgroups).

**Study designs to be included** Cross-sectional studies.

**Eligibility criteria** (a) Study participants are adults aged  $\geq 18$ ; (b) Studies conducted in Malaysia; (c) Used a specific questionnaire to measure health knowledge, attitude and practice regarding osteoporosis.

**Information sources** An extensive literature search using a combination of text words or MESH terms (osteoporosis; knowledge; Malaysia) will be carried out on electronic databases such as PubMed, Scopus, and supplemented by a Google Scholar search using the same search terms.

**Main outcome(s)** Knowledge, attitude, practice regarding osteoporosis.

**Additional outcome(s)** None.

**Data management** References retrieved will be managed using citation manager Endnote 20.

**Quality assessment / Risk of bias analysis** The studies identified will then be assessed for methodological validity using JBI critical appraisal checklist for analytical cross-sectional studies. Relevant data in the included studies will be extracted by a pair of investigators independently, to minimize potential bias and error as well as to resolve any disagreements.

**Strategy of data synthesis** Meta-analysis will be performed using MedCalc Statistical Software.

**Subgroup analysis** If possible, subgroup analysis by general population or specific population subgroups.

**Sensitivity analysis** None.

**Language restriction** English.

**Country(ies) involved** Malaysia.

**Other relevant information** This systematic review will be prepared following PRISMA guidelines.

**Keywords** Adult; Health Knowledge, Attitudes, Practice; Osteoporosis; Malaysia; Meta-Analysis.

**Dissemination plans** Publication of manuscript in a journal.

### Contributions of each author

Author 1 - Cheong Lieng Teng - Protocol preparation; literature search and management; statistical analysis ; manuscript preparation.

Email: cheonglieng\_teng@imu.edu.my

Author 2 - Nisar Ahmad Mir - Protocol preparation; manuscript preparation.

Email: nisar\_ahmed@imu.edu.my

Author 3 - Yu Jing Chua - Protocol preparation; literature search and management; manuscript preparation.

Email: chua.yujing@student.imu.edu.my

Author 4 - Douglas Jia Rong Yap - Protocol preparation; literature search and management; manuscript preparation.

Email: douglas.yapjiarong@student.imu.edu.my

Author 5 - Zhuo Qin Chow - Protocol preparation; literature search and management; manuscript preparation.

Email: chow.zhuoqin@student.imu.edu.my

Author 6 - Zhen Xian Choo - Protocol preparation; literature search and management; manuscript preparation.

Email: choo.zhenxian@student.imu.edu.my

Author 7 - Ang Kang Cheah - Protocol preparation; literature search and management; manuscript preparation.

Email: 00000031358@student.imu.edu.my