

APPENDIX A - Systematic Literature Mapping Protocol

SYSTEMATIC LITERATURE MAPPING PROTOCOL

Objective

Finding out what are the characteristic trends of health studies in microgravity published in the last 5 years

Research questions (RQ)

RQ1	What is the time distribution and trend over the last 5 years?
RQ2	What is the geographical distribution of publication of the studies?
RQ3	What are the most adopted methodologies in microgravity for health research?
RQ4	What are the most explored topics in the area of health knowledge?

Search procedure

Search source	Search string
PubMed	(microgravity) AND (health)
ScienceDirect	microgravity AND health
Wiley Online Library	"microgravity" anywhere and "health" anywhere

Research strings

Years	2017,2018,2019,2020,2021,2022
Language	English, Portuguese, Spanish
Publication type	Article
Text availability	Free full text

Inclusion criteria

Criteria 1	Be an article
Criteria 2	Published between 2017 and 2022
Criteria 3	Be in English, Portuguese or Spanish
Criteria 4	Free and full text available

Exclusion criteria

Criteria 1	Not having a microgravity methodology applied
Criteria 2	Not be about health research
Criteria 3	Having more than one copy in the search results
Criteria 4	Not be a primary study
Criteria 5	Not be a free full article, although it is classified as such in the database
Criteria 6	Not be an article, although it is classified as such in a journal

Results	Overall result	After inclusion criteria
PubMed	1.451	383
ScienceDirect	3.122	90
Wiley Online Library	1.923	98
Total	6.496	571



Links	Overall result	After inclusion criteria
PubMed	https://pubmed.ncbi.nlm.nih.gov/?term=%28microgravity%29+AND+%28health%29	https://pubmed.ncbi.nlm.nih.gov/?term=(microgravity)%20AND%20(health)&filter=simsearch2.ffrft&filter=datesearch.y_5&filter=lang.english&filter=lang.portuguese&filter=lang.spanish&show_snippets=off&size=20
ScienceDirect	https://www.sciencedirect.com/search?qs=microgravity%20AND%20health	https://www.sciencedirect.com/search?qs=microgravity%20AND%20health&lastSelectedFacet=accessTypes&years=2022%2C2021%2C2020%2C2019%2C2018%2C2017&articleTypes=FLA&accessTypes=openaccess
Wiley Online Library	https://onlinelibrary.wiley.com/action/doSearch?field1=AllField&text1=microgravity&field2=AllField&text2=health&field3=AllField&text3=&Ppub=	https://onlinelibrary.wiley.com/action/doSearch?AfterMonth=&AfterYear=2017&BeforeMonth=&BeforeYear=2022&ConceptID=15941&Ppub=&field1=AllField&field2=AllField&field3=AllField&rel=nofollow&text1=microgravity&text2=health&text3=&startPage=

