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### **Working Paper**

Dimensions of health workforce performance: a scoping review

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# Supplementary material A: Materials and methods

Table S1: Inclusion and exclusion criteria

Criteria	Inclusion	Exclusion
Setting	All countries, both public and	
	private sectors.	
Level of analysis (perspective)	Individual, team, facility	Macro level, health systems,
		international comparisons
Health setting		No exclusion. Performance
		related to any health condition is
		acceptable.
Population	Health practitioners (ILO ISCO	
	categories 22 and 32)	
Study design	Experimental, interventional	Studies in which the causality
, 3	analytic studies assessing the	link between intervention,
	impact of strategies,	themes and performance
	interventions or programs with	dimensions was not clearly
	at least 1 component that aimed	stated or addressed; narrative
	to influence performance (or any	research
	dimension).	
	Non-experimental,	
	observational, qualitative studies	
	with clear causality relation	
	between themes, or hypotheses	
	and performance (or any	
	dimension)	
Outcome	Direct and indirect measures of	Studies that only report on
	performance or its dimensions.	health outcomes (e.g.,
	Factors, barriers (determinants)	community health worker
		studies that only report the
		impact on child mortality)
Language	English and Spanish	
Type of publications	Articles published in peer-review	Abstracts, reports, book
	journals.	chapters, proceedings to
		conferences.

Table S2. Process of selection of relevant keywords from previous systematic review studies and team discussion

## Performance:

Performance	
Keywords	Source
Performance OR productivity OR availability OR competence	[5]

Quality OR budget performance OR equitable distribution OR incentives OR payment OR	Team
career development OR preseenteism OR absenteism OR management OR governance OR	discussion
team OR enabling factors	HRH
	experts
Performance appraisal OR personnel selection OR personnel recruitment OR personnel	[14]
turnover OR staff development OR workload OR remuneration OR motivation OR incentive	1
OR incentives OR disincentive OR disincentives OR job satisfaction OR job performance OR	
retention OR supervision OR task+shifting OR task shifting	[40]
Self-esteem OR motivation OR attitudes OR competencies OR guideline adherence OR job	[13]
satisfaction OR capacity to facilitate community agency OR utilization of services OR health-	
seeking behaviour OR adoption of practices promoting health OR community empowerment	
Performance OR presenteeism OR absenteeism OR creat* OR product* OR commit* OR	[12]
collegial* OR problem-solv* OR motivat* OR "goal set*" OR flexib* OR innovat* OR invent*	
OR original* OR ingenious* OR manage* OR attitude OR output OR "goal clarity" OR "work	
hours" OR engage* OR involve* OR satisf* OR fidel* OR devot* OR team* OR communicat*	
OR support* OR friendship OR relation* OR collabo* OR fellowship OR together* OR unit*	
OR solid* OR mutual* OR coopera* OR coordinat* OR reciproc* OR camarad* OR	
companionship OR comradeship OR harmon*	
Mentor OR support OR train OR supervision OR advise	[16]
Wentor On Support On train On Supervision On advise	[10]
Personnel management OR performance management OR supervision OR recognition OR	[11]
professional development OR continuing education OR training OR quality assurance OR	
quality improvement OR performance improvement OR performance appraisal OR	
incentives OR allowances OR guidelines OR tools OR support OR reward OR sanctions OR	
leadership OR participation OR integration of services OR remuneration OR payment OR	
performance-based incentives OR equipment OR technologies OR supplies OR workflow	
OR workload OR workplace safety OR medical care OR integration of services OR	
decentralisation OR teamwork OR contract OR performance contract.	<u> </u>
Performance OR quality OR benchmark OR effectiv* OR efficien* OR appraisal* OR training	[44]
OR education OR knowledge OR competen* OR evaluation OR cost	
OR skill OR patient satisfaction OR quality OR education	
Intervention	
Tools OR checklist OR curriculum OR guideline OR evaluation OR appraisal OR validation OR	[16]
delivery of health care OR quality of health care OR quality improvement OR quality	
assurance	
Job descriptions OR Norms and codes of conduct OR Skills matched with needs OR	[5]
Supervision OR Remuneration OR Information and communication OR Infrastructure and	
supplies OR Lifelong learning OR Teamwork OR Responsibility OR accountability	
Supplies on Eliciong learning on Teamwork on Responsibility on accountability	
Impact OR intervention OR initiative OR rating OR report OR scorecard	[44]
OR implementation OR intervention OR participatory action OR practice guidelines OR	
program evaluation OR quality assurance OR seminar OR standard management OR	
standard treatment OR standards OR structured care OR training OR treatment guidelines	
OR treatment practices OR utilization OR workshops	
on a comment produces on difficultion on workshops	

### Table S3 – Final set of keywords for WoS and MEDLINE searches.

## Web of Science

TI=((Health Practitioners OR Health Professionals OR Medical Doctors OR Generalist Medical Practitioners OR Specialist Medical Practitioners OR Nursing and Midwifery Professionals OR Nursing Professionals OR Midwifery Professionals OR Dentists OR Pharmacists) AND (Performance OR Productivity OR benchmark OR effectiveness OR efficacy OR budget

performance OR cost OR Availability OR distribution OR selection OR retention OR turnover OR presenteeism OR absenteeism OR availability of equipment OR supplies OR Competence OR career development OR professional development OR staff development OR mentor OR support OR train OR supervision OR advise OR continuing education OR training OR education OR attitude OR skills OR knowledge OR Responsiveness OR motivation OR attitudes OR self-esteem OR job satisfaction OR engagement OR goal clarity OR goal set OR creativity OR innovation OR quality of care OR quality OR quality improvement OR patient satisfaction OR accountability system OR Enabling factors OR Disabling factors OR determinants OR tools OR technologies OR incentives OR disincentive OR payment OR remuneration OR workload OR performance contract OR performance-based incentives OR workflow OR workload OR workplace safety OR working conditions OR allowances OR reward OR sanctions OR On-time payment OR equipment OR monitoring OR evaluation OR Pay for performance OR Guideline adherence OR management OR governance OR team OR teamwork OR supervision OR task-shifting OR collegiality OR problemsolving OR personnel management OR leadership OR cooperation OR task substitution OR task delegation OR communication OR Capacity to facilitate community agency OR utilization of services OR health-seeking behaviour OR adoption of practices promoting health OR community empowerment))

#### **MEDLINE**

MT=((Health Personnel) AND (Work Performance OR Employee performance appraisal OR Reimbursment-Incentive OR Task performance and analysis OR Efficiency OR Efficiency-Organizational OR Cost-benefit analysis OR Program Evaluation OR Cost and cost analysis OR Healthcare disparities OR Personnel turnover OR Presenteeism OR Absenteeism OR Equipment and supplies OR Staff Development OR Mentors OR Education OR Continuing OR Professional Competence OR Educational Status OR Attitude OR Knowledge OR Training support OR Interprofessional education OR Motivation OR Job Satisfaction OR Patient Satisfaction OR Quality Improvement OR Quality of Health care OR Total quality management OR Goals OR Self Concept OR Social Responsibility OR Attitude OR Reimbursement OR Incentive OR Motivation OR Remuneration OR Workload OR Workflow OR Workplace OR Reward OR Social Control OR Formal OR Financing OR Organized OR Technology OR Causality OR Equipment and supplies Leadership OR Guideline Adherence OR Personnel Management OR Communication OR Problem Solving OR Government OR Health Behavior OR Facilities and Services utilization))

Table S4 – Data extraction fields

Field	Description
Country	Country of study; this review included countries
	that were most represented.
Objectives	Aims and objectives of the study
Type of health workforce	Specific cadres, or professional figures if reported
	in detail
Study design	Type of study and research methodology
Performance output	Aspects of healthcare practice with a causal effect
	on performance (e.g. dependent variable or
	theme)
Performance outcome	Effects of outputs on population health
WHO dimension	Any of the WHO 2006 dimensions: availability,
	competence, responsiveness, productivity or their
	combination.
Element inside the dimension	Elements related to the performance dimension(s)
Main factors	Factors or determinants enabling or affecting
	productivity or dimensions

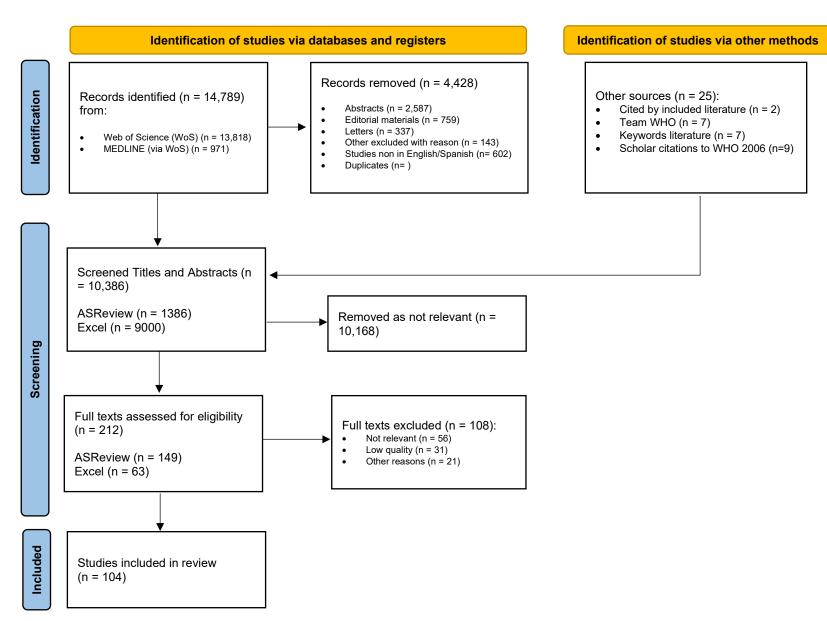


Figure S1: PRISMA diagram

Table S5 – Prisma-ScR checklist

Section	Item	PRISMA-ScR Checklist item	Page
TITLE			
Title	1	Identify the report as a scoping review.	1
ABSTRACT			
Structured summary	2	Provide a structured summary that includes (as applicable): background, objectives, eligibility criteria, sources of evidence, charting methods, results, and conclusions that relate to the review questions and objectives.	1
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known. Explain why the review questions/objectives lend themselves to a scoping review approach.	2
Objectives	4	Provide an explicit statement of the questions and objectives being addressed with reference to their key elements (e.g., population or participants, concepts, and context) or other relevant key elements used to conceptualize the review questions and/or objectives.	3
METHODS		4	
Protocol and registration	5	Indicate whether a review protocol exists; state if and where it can be accessed (e.g., a Web address); and if available, provide registration information, including the registration number.	NA
Eligibility criteria	6	Specify characteristics of the sources of evidence used as eligibility criteria (e.g., years considered, language, and publication status), and provide a rationale.	4 & Supplementary material A – table S1
Information sources	7	Describe all information sources in the search (e.g., databases with dates of coverage and contact with authors to identify additional sources), as well as the date the most recent search was executed.	4
Search	8	Present the full electronic search strategy for at least 1 database, including any limits used, such that it could be repeated.	Supplementary material A – table S2, S3
Selection of sources of evidence	9	State the process for selecting sources of evidence (i.e., screening and eligibility) included in the scoping review.	4-5

Data charting process	10	Describe the methods of charting data from the included sources of evidence (e.g., calibrated forms or forms that have been	5
		tested by the team before their use, and whether data charting	
		was done independently or in duplicate) and any processes for	
		obtaining and confirming data from investigators.	
Data items	11	List and define all variables for which data were sought and any	5
		assumptions and simplifications made.	
Critical appraisal of individual	12	If done, provide a rationale for conducting a critical appraisal of	NA
sources of evidence		included sources of evidence; describe the methods used and	
		how this information was used in any data synthesis (if	
		appropriate).	
Synthesis of results	13	Describe the methods of handling and summarizing the data that	5
		were charted.	
RESULTS			
Selection of sources of evidence	14	Give numbers of sources of evidence screened, assessed for	Supplementary material A – figure
		eligibility, and included in the review, with reasons for exclusions	S1
		at each stage, ideally using a flow diagram.	
Characteristics of sources of	15	For each source of evidence, present characteristics for which	5-7
evidence		data were charted and provide the citations.	
Critical appraisal within sources of	16	If done, present data on critical appraisal of included sources of	NA
evidence		evidence (see item 12).	
Results of individual sources of	17	For each included source of evidence, present the relevant data	Supplementary material B
evidence		that were charted that relate to the review questions and	
		objectives.	
Synthesis of results	18	Summarize and/or present the charting results as they relate to	7-16
		the review questions and objectives.	
DISCUSSION			
Summary of evidence	19	Summarize the main results (including an overview of concepts,	18-20
		themes, and types of evidence available), link to the review	
		questions and objectives, and consider the relevance to key	
		groups.	
Limitations	20	Discuss the limitations of the scoping review process.	20
Conclusions	21	Provide a general interpretation of the results with respect to the	21
		review questions and objectives, as	
		well as potential implications and/or next steps.	

FUNDING			
Funding	22	Describe sources of funding for the included sources of evidence, as well as sources of funding for the scoping review. Describe the role of the funders of the scoping review.	NA

Figure S2. Process of collating, summarizing and reporting results

