Job morale of physicians in low-income and middle-income countries: a systematic literature review of qualitative studies

Alina Sabitova, Sana Zehra Sajun, Sandra Nicholson, Franziska Mosler, Stefan Priebe

ABSTRACT

Objective To systematically review the available literature on physicians’ and dentists’ experiences influencing job motivation, job satisfaction, burnout, well-being and symptoms of depression as indicators of job morale in low-income and middle-income countries.

Design The review was reported following Preferred Reporting Items for Systematic Reviews and Meta-Analyses guidelines for studies evaluating outcomes of interest using qualitative methods. The framework method was used to analyse and integrate review findings.

Data sources A primary search of electronic databases was performed by using a combination of search terms related to the following areas of interest: ‘moral’, ‘physicians and dentists’ and ‘low-income and middle-income countries’. A secondary search of the grey literature was conducted in addition to checking the reference list of included studies and review papers.

Results Ten papers representing 10 different studies and involving 581 participants across seven low-income and middle-income countries met the inclusion criteria for the review. However, none of the studies focused on dentists’ experiences was included. An analytical framework including four main categories was developed: work environment (physical and social), rewards (financial, non-financial and social respect), work content (workload, nature of work, job security/stability and safety), managerial context (staffing levels, protocols and guidelines consistency and political interference). The job morale of physicians working in low-income and middle-income countries was mainly influenced by negative experiences. Increasing salaries, offering opportunities for career and professional development, improving the physical and social working environment, implementing clear professional guidelines and protocols and tackling healthcare staff shortage may influence physicians’ job morale positively.

Conclusions There were a limited number of studies and a great degree of heterogeneity of evidence. Further research is recommended to assist in scrutinising context-specific issues and ways of addressing them to maximise their utility.

PROSPERO registration number CRD42017082579.

Strengths and limitations of this study

- This study is novel in synthesising qualitative data from all available research on low-income and middle-income countries (LMICs) and provides conclusions based on findings from diverse countries, cultural backgrounds and clinical specialties.
- This study can inform the design of potential interventions and workforce policies and interventions in LMICs; therefore, their clinical utility can be advanced.
- Limited availability and heterogeneity of studies allowed drawing only tentative conclusions.
- This study might be limited conceptually since a small number of studies were eligible.

BACKGROUND

The crisis in human resources for health has been defined as one of the most severe global health problems and a major barrier to achieving universal health coverage and building a sustainable health system. This crisis is especially acute for low-income and middle-income countries (LMICs), many of which suffer from both a shortage and poor devotion of healthcare staff.

Objectives Due to the far-reaching effect of job morale, interest in the issue among healthcare staff has increased considerably in recent decades. First, positive job morale is linked to a greater number of healthcare workers being recruited and retained which appears to be essential in solving the pressing issue of healthcare staff maldistribution in LMICs. Second, healthcare staff with positive job morale are more likely to provide higher quality care to patients. Furthermore, improving staff well-being could save healthcare spending by decreasing financial investments in medical education and lower spending on sickness absence and staff turnover.
Despite its importance, there is no universally adopted definition for the concept of job morale nor an agreement on what it constitutes. This could partially explain why research studies aiming to measure job morale are somewhat sporadic. Although several authors have tried to investigate job morale as a single entity, they ended up measuring its outcomes or explanatory variables. Particularly, they referred to the significance of job motivation, job satisfaction, well-being, burnout and depressive symptoms. All these variables can be regarded as indicators of job morale.

Most studies on job morale in healthcare have focused on either nurses or healthcare staff in general, although job morale has been shown to vary by professional group and training status. A limitation of the current academic literature is that relatively little is known about physicians’ and dentists’ experience of job morale in LMICs. There is a lack of detailed description of contextual features and latent influences which could be provided by qualitative research. Identifying and dentists’ experiences that influence job morale may help to create an analytical framework for analysing workforce policies and interventions with clinical and economic benefits.

Against this background, this review aimed to answer the following research question: Which experiences influence job motivation, job satisfaction, burnout, well-being and symptoms of depression as indicators of job morale among physicians and dentists in LMICs?

METHODS

Search strategy

A systematic search of electronic databases and grey literature was performed according to the review protocol. The following six electronic databases were searched: Scopus, Pubmed, PsycINFO, Embase, Web of Science and The Cochrane Library up to May 2018. Search terms combined three overlapping areas with key words such as ‘morale’ OR ‘job motivation’ OR ‘job satisfaction’ OR ‘well-being’ OR ‘burnout’ OR ‘depression symptoms’ AND ‘physicians’ OR ‘dentists’ AND ‘LMICs’ (see online supplementary file 1). Publication bias was reduced by searching conference papers and unpublished literature; hand searches of key journals and reference lists were performed. This review was reported following Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines.

Selection criteria

Studies were eligible if they assessed any one of the job morale constructs such as job motivation, job satisfaction, well-being, burnout and depression symptoms by using qualitative methods; if at least 50% of the sample were qualified physicians and/or dentists employed in public healthcare settings or if data about qualified physicians and/or dentists employed in public healthcare settings were provided separately; if at least 50% of the sample were from the LMICs as defined by World Bank criteria or data from the country of interest was provided separately. Papers were excluded if more than 50% of the sample were not yet fully qualified physicians and (or) dentists who were undertaking training at the time of the study (medical students, residents, trainees, registrars or junior physicians), and if they were not written using Latin alphabet, Russian or Kazakh. There was no restriction on the date the studies were conducted. All included articles were inspected independently by a second reviewer (SZS) to verify inclusion.

Considering the definitional imprecision of job morale and the different dimensions used to characterise it, we employed an inclusive approach adopting of five indicators of interest, including job motivation, job satisfaction, well-being, burnout and depression symptoms.

Review strategy

Titles and abstracts of identified articles were exported into EndNote V.X8 and were screened by the first reviewer (AS) in order to exclude irrelevant studies and duplicates. Full-text articles were inspected again for the relevance according to the inclusion criteria. A random sample of 20% of the articles was independently screened by the second reviewer (SZS) at each stage. Discrepancies were resolved by involving a third reviewer (SP). Mismatches at the full-text screening stage were added up and inter-rater reliability calculated. The level of agreement between AS and SZS was 80%, between AS and SP was 75%.

Data extraction and quality assessment

Data from each paper, including study details, participant demographics and key results were extracted (see online supplementary file 2). In the case of mixed methods studies, only qualitative findings were extracted. The second reviewer (SZS) ensured the accuracy at this stage by extracting data from 20% of the included papers. One article written in Portuguese was extracted by involving a native speaker. Methodological quality was assessed using the Critical Appraisal Skills Programme (CASP) for qualitative studies.

Data synthesis and risk of bias assessment

As part of the framework method, data from the results sections of included articles were coded in the reviewing software (EPPi-reviewer) and preliminary concepts describing physicians’ experiences were defined inductively. Similar concepts were grouped into categories and sub-categories independently by two reviewers (AS, SZS) and were discussed with other researchers (SP, FM, SN) to ensure the range and depth of the coding. The defined categories were then organised in the analytical framework. The framework matrix was used to provide a list of illustrative quotations. Additionally, vote counting was used as a descriptive tool to indicate patterns across the included studies. We calculated the frequency of defined categories to present how prevalent each category was within the included studies.
Physicians’ experiences influencing job morale

Identified concepts relevant to physicians’ experiences of job morale were grouped into four main framework categories: work environment (I), rewards (II), work content (III) and managerial context (IV). The respective subcategories within each of these categories are presented in the following section. Illustrative quotations within each category are provided in table 2.

Work environment

Categories such as physical and social work environment appeared in all included studies.

Physical

Participants expressed that job morale was influenced considerably by working conditions, as a crucial source of job motivation and satisfaction. Few of them were ‘satisfied with physical environment’, but the majority of physicians felt ‘very disgusted’ and ‘very ashamed’ of the hospital infrastructure and constraints of resources, including lack of medicines and equipment deficiency. Additionally, physicians noted that poor physical environment in the hospitals ‘annoyed patients’ and showed awareness that poor hygienic conditions were making patients ‘more sick’. The category addressing ‘physical work environment’ included residential living conditions for physicians who were based in more rural health settings. They described their residences as ‘inhabitable’ houses with poor ‘water and electricity connections’, that are ‘falling apart’. The limited options for schooling for their children and underdeveloped road access were frustrating and demotivating.

Social

Physicians described a sense of ‘collegiality’ and ‘regular interactions’ among staff in the healthcare facilities as a motivator and perceived ‘poor interpersonal relations’ as generally as demotivating. Four main sub-categories contributed to defining the ‘social environment’ category: relationships with nurses and auxiliary, relationships with other physicians; relationships with patients and relationships with managers/supervisors.

Participants questioned the professional ‘competency’ and ‘power’ of nurses and noticed that auxiliary staff were ‘unsupportive and apprehensive’ and worked ‘often without a license to practice’. Relationships with other fellow physicians were found to be ‘very stimulating’ not only within a hospital, but this view also emerged in case of ‘visiting consultants’ in rural settings.

There was inconsistency in experiences relating to physician-patient relationships. Some participants ‘seemed fairly happy’ and ‘expressed satisfaction with their current relationships’. However, others expressed the view that physicians ‘often had to see angry patients’, who ‘could not understand the physicians’ work’.
<table>
<thead>
<tr>
<th>N</th>
<th>Authors, year</th>
<th>Country (income group)</th>
<th>Setting</th>
<th>Study design</th>
<th>Data collection</th>
<th>Sampling</th>
<th>Sample size</th>
<th>Gender</th>
<th>Age/average</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ashmore, 2013</td>
<td>South Africa (upper-middle income)</td>
<td>Urban</td>
<td>Qualitative</td>
<td>Semi-structured interviews (primary and follow-ups)</td>
<td>Purposive</td>
<td>51 (28 dual practice doctors and 23 policy-makers/managers)</td>
<td>64% males 36% females</td>
<td>29–63/not stated</td>
</tr>
<tr>
<td>2</td>
<td>Chen et al., 2017</td>
<td>China (upper-middle income)</td>
<td>Rural</td>
<td>Qualitative</td>
<td>Focus groups</td>
<td>Not stated</td>
<td>39 doctors</td>
<td>59% males 41% females</td>
<td>Not stated/38–47 (in five different settings)</td>
</tr>
<tr>
<td>3</td>
<td>Feliciano et al., 2011</td>
<td>Brazil (upper-middle income)</td>
<td>Urban</td>
<td>Qualitative</td>
<td>Semi-structured interviews</td>
<td>Purposive</td>
<td>24 doctors (12 paediatricians; 8 general practitioners, psychiatrist, infectologists, obstetric gynaecologist, anaesthesiologist)</td>
<td>66.7% males 33.3% females</td>
<td>Not stated</td>
</tr>
<tr>
<td>4</td>
<td>Kotzee and Couper, 2006</td>
<td>South Africa (upper-middle income)</td>
<td>Rural</td>
<td>Qualitative</td>
<td>Semi-structured interviews</td>
<td>Unclear: random or purposive (both stated)</td>
<td>10 non-specialist qualified doctors</td>
<td>60% males 40% females</td>
<td>25–36/not stated</td>
</tr>
<tr>
<td>5</td>
<td>Li et al., 2017</td>
<td>China (upper-middle income)</td>
<td>Rural</td>
<td>Mixed methods</td>
<td>Semi-structured interviews</td>
<td>Purposive</td>
<td>34 (21 village doctors and 13 managers)</td>
<td>76.5% males 23.5% females</td>
<td>Not stated</td>
</tr>
<tr>
<td>6</td>
<td>Liadova et al., 2017</td>
<td>Russia (upper-middle income)</td>
<td>Urban</td>
<td>Mixed methods</td>
<td>In-depth interviews</td>
<td>Not stated</td>
<td>50 emergency doctors</td>
<td>60% males 40% females</td>
<td>25–50/not stated</td>
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<tr>
<td>7</td>
<td>Luboga et al., 2010</td>
<td>Uganda (low income)</td>
<td>Not stated</td>
<td>Mixed methods</td>
<td>Focus groups</td>
<td>Stratified random</td>
<td>49 doctors</td>
<td>90% males 10% females</td>
<td>26–70/36</td>
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<tr>
<td>8</td>
<td>Malik et al., 2010</td>
<td>Pakistan (lower-middle income)</td>
<td>Urban</td>
<td>Mixed methods</td>
<td>Open-ended questionnaire</td>
<td>Stratified random</td>
<td>360 doctors</td>
<td>50% males 50% females</td>
<td>Not stated</td>
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<td>9</td>
<td>Shah et al., 2016</td>
<td>Pakistan (lower-middle income)</td>
<td>Rural</td>
<td>Qualitative</td>
<td>Semi-structured and in-depth interviews</td>
<td>Not stated</td>
<td>22 (16 doctors and 6 managers/administrators)</td>
<td>86.4% males 13.6% females</td>
<td>Not stated/38</td>
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<tr>
<td>10</td>
<td>Wallace and Brinister, 2010</td>
<td>Moldova (lower-middle income)</td>
<td>Urban</td>
<td>Qualitative</td>
<td>In-depth interviews</td>
<td>Purposive</td>
<td>20 family physicians</td>
<td>100% females</td>
<td>Not stated/42.4±7.2</td>
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</tbody>
</table>
### Table 2 Illustrative quotations

<table>
<thead>
<tr>
<th>Categories and sub-categories</th>
<th>Relevant studies (vote-counting)</th>
<th>Supporting quotations</th>
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<tbody>
<tr>
<td><strong>I. Work environment</strong></td>
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<tr>
<td><strong>1. Physical</strong></td>
<td>Nine studies[^31^ 38^ 40^ 46]</td>
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<tr>
<td><strong>1.1. Working conditions</strong></td>
<td>Eight studies[^31^ 38^ 40^ 42]</td>
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<tr>
<td><strong>1.1.1. Hospital infrastructure</strong></td>
<td>Seven studies[^31^ 38^ 40^ 42]</td>
<td>“Yes, it’s [the hospital] not really good for really working…” (Kotzee and Couper, 2006)</td>
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<td></td>
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<td>“I think we make our patients more sick in the hospital - somebody can come with one disease and go away with five diseases. The infection control is very poor mainly because the facility is so bad. Sometimes you have no soap to wash the hands. These are the hopeless situations when you are working in such a place that you feel very disgusted when you look at the bed, you look at the mattress on bed and you look at the sheets the patient is sleeping in.” (Luboga et al., 2011)</td>
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<td>“Okay, you just go and look at the lavatories, especially in the public areas… That’s the consumer, but you know there are ways you can deal with that, and one of the ways to deal is that you have some sort of attendant, and constant cleaning of the lavatories. I mean a lot of patients come to me and... refuse to go to the lavatory because they say it’s so filthy... And that makes one feel very ashamed... Telephones get stolen... bed linen gets stolen, and you’re working in that environment... where there isn’t a blanket to put on the patient, there isn’t a pillow for her head and it’s because things have been nicked. So and all of that you know is difficult.” (Ashmore, 2013)</td>
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<td></td>
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<td>“When you are engaged in work, it is difficult to survive in summer without air conditioning, because it is extremely hot in the summer in Guangxi, with peak temperatures even up to 40°C sometimes.” (Chen et al., 2017)</td>
</tr>
<tr>
<td>1.1.2. Availability of resources</td>
<td>Seven studies[^31^ 38^ 40^ 41^ 42]</td>
<td>“Okay firstly… our casualty... there is virtually nothing you know related to emergency...if you want to attend to an emergency patient there isn’t much you can use except maybe things like IV lines...may be a drip stand; since I came here we didn’t have simple things like glucometers. So every time a patient comes and you want to do the glucose level you have wait for the lab to do it. Recently they have introduced some glucometers but they work only for a few months... maybe there is one BP machine, which is used by two or three different wards. They have to wait until the other ward is done so they can go and borrow so it is – yeah – it is a problem” (Kotzee and Couper, 2006)</td>
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<td>“Then another thing is equipment. We are doing operations but we do not have some equipment like theatre lights. After complaining we were given a tube for operation, but even in the whole ward we do not have enough lights. And can you imagine the whole of this hospital with only two oxygen concentrators? At least every ward should be having one or two. We have only one for the paediatric ward after complaining so long. So if you are using it on the child, and someone else needs it you either remove the child to die or you wait for the other to die.” (Luboga et al, 2011)</td>
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<td>“…you are in the teaching facility. I mean you would love to have all the modern things like the books the overseas people are talking about and you would love to impart that knowledge onto your students. But we don’t have the equipment, I mean we have but you will find that they are outdated…” (Ashmore, 2013)</td>
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<tr>
<td><strong>1.2. Living conditions</strong></td>
<td>Three studies[^31^ 40^ 46]</td>
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<td>“…the other most important thing is good accommodation; but anybody is going to struggle with accommodation they are not going to work there... you don’t want to wake up in the morning and know that you are going to share your bathroom with four other people and staff like that…” (Kotzee and Couper, 2008)</td>
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<td>“…I joined BHU because I hoped to get a house to live; but the BHU residence is not worth living…” (Shah et al, 2006)</td>
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<td>“Who will be willing to work in a BHU which doesn’t even have road access? I have to walk two kilometres daily to reach the main road leading to the BHU where I work.” (Shah et al, 2006)</td>
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<tr>
<td><strong>2. Social</strong></td>
<td>Nine studies[^31^ 38^ 40^ 46]</td>
<td></td>
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<tr>
<td><strong>2.1. Relationships with nurses and auxiliary staff</strong></td>
<td>Five studies[^31^ 40^ 41^ 44^ 45]</td>
<td>“There is a difficulty I terms of the nursing staff and I don’t think when I was a registrar it was better. I think the staff were trained differently, they were trained in general nursing and then midwifery so the midwives instead of doing 3 months or whatever it is in midwifery and a general training so they’re less competent... the doctors picking up a lot of duties which the nurses should do automatically and they don’t... Which makes it far less satisfying for the doctor, and far more stressful because... you can’t trust the instructions are definitely going to be carried out.” (Ashmore, 2013)</td>
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<td>“...it was shock to me, because in training people did not exist the nurse with as much power as she has today in the family health unit, it was a very big shock when I arrived... I see nurse being a doctor, I was horrified, so I asked myself: what I am doing here, what is left for me?” (Feliciano et al, 2011)</td>
</tr>
</tbody>
</table>
2.2. Relationships with other physicians

Two studies

"...it is very stimulating to work in a collegial and academic environment where you're going to, you know, X-ray meetings and you're on wards rounds, with consultants that are giving their different inputs..." (Ashmore, 2013)

"...what has helped keep me stimulated is even though we are in a rural area there are so many visiting consultants coming from Wits and Garankuwa and Polokwane... Just knowing that there's people coming every month or so that are interested in what you're doing; can support you and you can always ask them; it definitely improves the quality of your work and the job satisfaction and you feel less out of touch and that you're doing the right thing, sometimes you need a bit of reassurance that you are doing the right things under the circumstances." (Kotzee and Couper, 2006)

2.3. Relationships with patients

Five studies

"...some of my patients do not want to be informed or listen to me." (Wallace and Brinister, 2010)

"Most patients with hypertension do not understand it. It is hard to convince them to come back to the clinic." Wallace and Brinister, 2010

"Sometimes they cursed and shouted at us. Even worse, some patients doubted the value of our medical services," (Chen et al, 2017)

2.4. Relationships with managers/supervisors

Five studies

2.4.1 Respect

Two studies

"I don't think... [the administration] quite realise the human resources they have available to them. I think sometimes they don't actually realise they're working with professionals, and they don't treat us as such..." (Ashmore, 2013)

2.4.2. Support

Two studies

"You feel that you're being hamstrung at every turn by the state you're trying to do. They don't make an effort to find out what's required by people who are actually doing the job..." (Ashmore, 2013)

2.4.3. Recognition

Two studies

"...In many other organizations, people with our skills and experience would be very highly valued and perceived as such. But you know here we don't get perceived or treated like that at all... " (Ashmore, 2013)

2.4.4. Autonomy

Two studies

"...management gave appropriate autonomy to staff, while still providing adequate supervision." (Luboga et al, 2011)

II. Rewards

1. Financial

Eight studies

"I am really willing to be a village doctor; it's a good job, you know. However, the income is too low to subsist on. I must earn what I need for living. " (Li et al, 2017)

"Now there are more and more people breeding silkworms. They even earn more than us (village doctors)." (Li et al, 2017)

"Our main purpose (to work in BHUs) is salary; which does not match with our qualifications..." (Shah et al, 2006)

"I earned below 2000 RMB (USD 303) per month, and sometimes I work more than 14 hours in 1 day." (Chen et al, 2017)

2. Non-financial

2.1. Career development

Five studies

"... when you go into a job you need something that's got a career path, and there aren't career paths [in public]. There's a few, a small little cadre at the top, a small group of people who get to principal or chief or specialist, and the rest of the people can spend their entire career as a senior specialist no matter how brilliant they are and much of a contribution they make." (Ashmore, 2013)

2.2. Professional development

2.2.1. Learning opportunities

Five studies

"...one of the things that is really distressing me for a few years, because [Family Healthcare Strategy] stopped doing the education work..." (translation) (Feliciano et al, 2011)

"Job satisfaction includes professional development, and there is no provision to allow us to further our qualification." (Luboga et al, 2010)

2.2.2. Teaching/research opportunities

One study

"...it is good and interesting to have students around you. So the teaching component of it I've always found just varies your day. It adds a little bit of an extra dynamic to what your routines are, so it can be quite fan and it's... a little bit challenging, and it just... adds spice to all your humdrum things." (Ashmore, 2013)
Table 2 Continued

<table>
<thead>
<tr>
<th>Categories and sub-categories</th>
<th>Relevant studies (vote-counting)</th>
<th>Supporting quotations</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Social respect</td>
<td>Four studies† † † † † † † † † †</td>
<td>“Although there have been many changes along with rapid development, patients still look for me when they get sick because of my reputation. All their family members know me and come to me for help.” (Li et al., 2017)</td>
</tr>
<tr>
<td></td>
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<td>“People hardly knew me when I just came back home for the job in 1998. At that time, patients didn’t know of my abilities. Everything was difficult. It got better several years later, as I worked longer.” (Li et al., 2017)</td>
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<td></td>
<td></td>
<td>“Wherever we go, people respect us, just like we have some guarantee. We’re certainly satisfied by this.” (Li et al., 2017)</td>
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<td></td>
<td>“People don’t consider a family physician important in their lives. They don’t appreciate their family physician, but they do specialists.” (Wallace and Brinister, 2008)</td>
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<tr>
<td></td>
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<td>“Most of the patients here are local farmers. They are honest and full of integrity. They followed our advice and showed their appreciation to us.” (Chen et al., 2017)</td>
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<tr>
<td>III. Work content</td>
<td></td>
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</tr>
<tr>
<td>1. Workload</td>
<td>Eight studies† † † † † † † † † †</td>
<td>“Too much workload now. I am in charge of only one village, with about 1500 residents. However, they live dispersedly. One is here, while another is quite far away. I run around all day long, but still can only offer public health services for several households.” (Li et al., 2017)</td>
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<td>“There is no time for my family and children.” (Wallace and Brinister, 2008)</td>
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<td></td>
<td>“…the number of patients and the little time for consultation, so I have no conditions…” (translation) (Feliciano et al., 2011)</td>
</tr>
<tr>
<td>2. Nature of work</td>
<td>Five studies† † † † † †</td>
<td>“…you feel like you’re making a tangible difference to people’s lives” (Ashmore, 2013)</td>
</tr>
<tr>
<td>2.1. Serving people</td>
<td>Four studies† † † † † † † † †</td>
<td>“I like the work because you get to know entire families. My patients are like my extended family. When I get results, it makes me very happy.” (Wallace and Brinister, 2010)</td>
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<td></td>
<td></td>
<td>“When my patients are cured after treatment, I feel so fulfilled and delighted. One patient still maintains contact with me. Our friendship began when he came to me with appendicitis. He has been well for 5 years now.” (Chen et al., 2017)</td>
</tr>
<tr>
<td>2.2. Diversity</td>
<td>Two studies† † † †</td>
<td>“You never know what the next case is. [Family medicine] forces you to use all the knowledge you learned at university” (Wallace and Brinister, 2010)</td>
</tr>
<tr>
<td>3. Job security/stability</td>
<td>Three studies† † † † †</td>
<td>“…the public sector is rick solid, so you basically have to do something bad to get fired. So there is a high degree of certainty in your job…” (Ashmore, 2013)</td>
</tr>
<tr>
<td>3.1. Safety</td>
<td>Three studies† † † † † †</td>
<td>“Female physicians usually do not like to work in BHUs. The reason may be the lack of security…” (Shah et al., 2006)</td>
</tr>
<tr>
<td>3.2. Physical</td>
<td>Two studies† † † †</td>
<td>“In state you’ve got three levels of people below you, so if you’re…a state consultant, yes, you’ve got different stresses, you’ve got to give a lecture and you’ve got to give that, but I’m saying that’s a different type of stress. But on a clinical responsibility level, between you and the patients, there is an intern and registrar… So the family’s complaining… and that comes all the way through those two people before it gets you. So that’s like you’re three degrees removed.” (Ashmore, 2013)</td>
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<tr>
<td>3.3. Legal</td>
<td>One study† †</td>
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<td>IV. Managerial context</td>
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<tr>
<td>1. Staffing levels</td>
<td>Seven studies† † † † † † † † †</td>
<td>“…if you fell you can’t go away because there aren’t people to cover your work then it creates tension in your ability to care for people. So resources around you do matter…The deficit falls on you to work hard.” (Ashmore, 2013)</td>
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<tr>
<td>1.1. Doctors’ and assistants’ deficiency</td>
<td>Five studies† † † † † † † † †</td>
<td>“There is only one medical assistant per family physician. That’s just not enough.” (Wallace and Brinister, 2010)</td>
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<td></td>
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<td>“We lack the doctors we need to provide adequate services. The shortage has pushed us to work longer. If more doctors could join us, that may ease our burdens.” (Chen et al., 2017)</td>
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<tr>
<td>1.1.1. Retention</td>
<td>One study† †</td>
<td>“I mean… in our department…to retain people is quite difficult, people work for a year or two then they go to private or they go off somewhere else. And for those posts to be filled again, it takes a lot of time… and in between people are frustrated.” (Ashmore, 2013)</td>
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### Table 2 Continued

<table>
<thead>
<tr>
<th>Categories and subcategories</th>
<th>Relevant studies (vote-counting)</th>
<th>Supporting quotations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1.2. Absenteeism</td>
<td>Two studies</td>
<td>&quot;...30% posts of physicians in the province are filled and most of them do not attend to their duties regularly.&quot; (Shah et al., 2006)</td>
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<tr>
<td>1.1.3. Recruitment</td>
<td>Two studies</td>
<td>&quot;...They (managers) don’t advertise posts that are available, they’ll tell you in human resources that the posts are there but even if you qualify for the posts they tell that because it hasn’t been advertised, you can’t get into.&quot; (Kotzee and Couper, 2006)</td>
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<tr>
<td>1.2. Administrative staff deficiency</td>
<td>Three studies</td>
<td>&quot;...within every department there are the obvious managerial requirements that some people take up. So somebody might do the roster allocation, somebody might do the leave allocation, somebody might do the budgeting, all that kind of stuff within any department. And that is left mostly to the members of the department to do even though we have very little training or no training whatsoever in management.&quot; (Ashmore, 2013)</td>
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<tr>
<td>2. Protocols and guidelines consistency</td>
<td>Four studies</td>
<td>&quot;...if the performance reports are not analysed properly, then no actions are expected. The performance appraisals currently in practice must be updated. Job descriptions do not exist in health department; older version of the documents needs to be updated.&quot; (Shah et al., 2006)</td>
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<tr>
<td>3. Political interference</td>
<td>Two studies</td>
<td>&quot;...Every patient is equal to us and we cannot give preference to a relative of a member of any political party. They try to influence us in several ways or they often threaten us to get us transferred to a remote BHU [Basic Healthcare Unit].&quot; (Shah et al., 2016)</td>
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<td></td>
<td></td>
<td>&quot;We get political interference under decentralization... They look at negative aspects of our work and comment badly, coming anytime even after midnight to our homes. This is a member of parliament...&quot; (Luboga et al., 2011)</td>
</tr>
</tbody>
</table>

### Workload

The workloads were mentioned broadly across all included studies. Specifically, physicians complained about the "too many working hours," especially during emergency duties and long working hours. In addition, physicians were often unattended to patients in charge, especially during the end of the day [19, 39, 41-46].

### Work content

The overarching category of work content subcategories, such as workload, nature of work, job security, and physical and legal safety, was observed in almost all included papers as experiences influencing job morale. "...30% posts of physicians in the province are filled and most of them do not attend to their duties regularly." (Shah et al., 2006)

### Non-financial

Despite the importance of financial incentives, physicians highlighted that "money is not the most important factor in determining physicians' job morale." (Shah et al., 2016)

### Financial

The majority of physicians felt that their financial compensation was "not acceptable," "low," and "failed to reflect the job's value," especially in rural areas [39, 40].

### Results

Almost all papers discussed the importance of financial and non-financial rewards in medical practice. "...30% posts of physicians in the province are filled and most of them do not attend to their duties regularly." (Shah et al., 2006) Physicians mainly indicated that relationships with managers/supervisors contributed to their burnout [42].

### Additional comments

Additional frustration was related to a large number of patients in charge and fixed times for appointments, as well as the need for learning, teaching, and research opportunities [31, 40-45]. The majority of physicians felt that their financial compensation was "not acceptable," "low," and "failed to reflect the job's value," especially in rural areas [39, 40]. Physicians mainly indicated that relationships with managers/supervisors contributed to their burnout [42]....
Nature of work

Despite the excessive workload, physicians have emphasised that the ‘serving’ nature of medical profession and the diversity of work was extremely satisfying and motivating. Participants felt ‘a sense of achievement’ when they ‘get results and see patients feeling better’. They also expressed a ‘passion to serve their own communities’.

Job security/stability

Furthermore, some physicians reported that regardless of ‘whether you do it well or whether you don’t do it so well’ working in public healthcare facilities ‘ensured job security for the rest of their careers and provided them with the ‘ability to support’ their families.

Physical and legal safety

The motivation experienced as a result of job security and stability was contrasted with the demotivation felt due to low levels of ‘personal safety’, especially for rural female physicians and growing responsibility for patients, ‘in [a] legal sense’. However, it has been noted that medico-legal risk for physicians could be mitigated by interns, residents and registrars, who ‘shield’ physicians from assuming complete medicolegal responsibility for all patients.

Managerial context

Experiences within the managerial aspect of medical practice were broadly discussed in terms of the staffing levels, protocols and guidelines consistency, and political interference.

Staffing levels

Low staffing levels of physicians, medical assistants and managers appeared to be a substantial cause of dissatisfaction and contributed towards absenteeism and retention problems. Excessive workload caused by the deficit of physicians and medical assistants resulted in physicians being frequently ‘absent’ from their duties and ‘encourage[d] others to leave’ as well. Moreover, it seemed quite difficult to attract people to work in healthcare facilities, ‘despite the district posting the growing vacancies for multiple years, no applications had been received’. At the same time, physicians raised a concern that vacant posts may not be advertised properly.

Protocols and guidelines consistency

Physicians stated that job description, protocols and guidelines regulating the drug prescriptions and performance appraisal processes ‘needed to be revised to include the solutions to the current work place problems’. Nonetheless, the ‘growing requirements’ as a consequence of the increasing number of ‘regulations and rules’ were highlighted as a source of frustration and burnout.

Political interference

Certain physicians felt that managerial work context was possibly disrupted by ‘politically powerful persons’ interfering ‘in the decision making [process] at health facilities and their attempts to get a prioritised treatment for relatives’. Some participants believed that it was difficult to be promoted or transferred to a desired position ‘without links with any influential person’ and mentioned cases of ‘intimidation of health workers by local politicians’.

DISCUSSION

Main findings

The aim of our systematic review was to synthesise qualitative studies exploring physicians’ experiences influencing job motivation, job satisfaction, burnout, well-being and symptoms of depression as indicators of job morale in LMICs.

The analytical framework that comprised four main categories of the work environment (I), rewards (II), work content (III) and managerial context (IV), was developed based on concepts that emerged from included studies. According to the vote counting results, workloads, working conditions and financial rewards were most frequently mentioned as influencing job morale and have been described in almost all studies. The majority of studies mentioned important experiences regarding staffing levels, career and professional development, relationships with nurses/auxiliary staff and managers/supervisors. Physicians from almost half of the included studies focused their attention on the nature of work, relationships with patients, protocols and guidelines consistency.

Physicians were quite consistent in defining whether their experiences were positive or negative. Experiences of excessive workload, low salaries, poor working and living conditions, fewer opportunities for career and professional development, staff shortage, tense physician–nurse and physician–manager/supervisor relationships, inconsistent professional guidelines and political interference were described as negative. Although physicians reported more negative experiences, positive experiences were also underlined in terms of the serving nature of work, being given social respect, job stability and collegial relationships with other physicians.

Strengths and limitations

To our knowledge, this is the first systematic review of qualitative studies exploring physicians’ experiences influencing job morale in LMICs. A further strength is that the review searched through papers from all LMICs and was not limited by physicians’ specialty or to English language publications. This allowed for the inclusion of data from diverse countries, cultural backgrounds and clinical specialties. However, this approach presented some limitations. First, although it was possible to extract general concepts in physicians’ experiences, there is not enough evidence to assess whether these apply to all
medical specialties and to other countries. There may be regional and clinical nuances that have not been identified in this review. Second, the prevalence of negative experiences over positive ones could be caused by a biased focus of studies on exploring difficulties. Third, heterogeneity of studies due to imprecise definitions of the concept of ‘job morale’, made it challenging to provide firm conclusions. Although dentists were included in the literature search, none of the studies on dentists met the inclusion criteria; therefore, the results cannot be generalised to them.

Despite these limitations, the current review is a valuable collation of studies and specifies which experiences influence the job morale of physicians.

Comparison with literature from high-income countries

The present review supports qualitative findings from previous studies that have been conducted in high-income countries (HICs). It is particularly consistent with findings that serving and helping patients, working on diverse medical cases, and healthy relationships with other medical staff constitute positive experiences and enhances workers’ job morale. It supports evidence that excessive workload, insufficient staffing levels, administrative burden, and poor relationships and understanding between medical staff and managers influence job morale negatively. In general, the tendency that professionals are more satisfied with the job content than with its structure and management can be observed not only among physicians. It applies also to employees of different occupations.

Contrary to our findings, healthcare staff employed in high-income countries indicated positive experiences regarding the consistency of existing protocols and guidelines, relationships with patients, and opportunities for continuing education. The review also demonstrated some evidence regarding poor physical environment within healthcare facilities and constraints of resources, as has been recorded previously. However, these findings should be interpreted with caution due to their context-dependency. The context often includes increasing poverty, inequality, and collapsing healthcare systems. The structural adjustment programmes promoted by international financial institutions and widely implemented across LMICs may influence the context.

The current review has identified that perceived threats to positive job morale of physicians in LMICs outweigh perceived incentives. It has highlighted several areas in which strategies aiming to improve physicians’ job morale in LMICs may be targeted. However, generalised conclusions are tentative because of the heterogeneity, limited number and inconsistent quality of the existing studies. Future research into physicians’ experiences influencing job morale in LMICs should robustly examine context-specific issues and appropriate ways of addressing them, to ensure that the results can be translated into practical programmes for improving healthcare practice.

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