## **BMJ Open** 'Care Under Pressure': a realist review of interventions to tackle doctors' mental ill-health and its impacts on the clinical workforce and patient care

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#### ABSTRACT

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Introduction Mental ill-health is prevalent across all groups of health professionals and this is of great concern in many countries. In the UK, the mental health of the National Health Service (NHS) workforce is a major healthcare issue, leading to presenteeism, absenteeism and loss of staff from the workforce. Most interventions targeting doctors aim to increase their 'productivity' and 'resilience', placing responsibility for good mental health with doctors themselves and neglecting the organisational and structural contexts that may have a detrimental effect on doctors' well-being. There is a need for approaches that are sensitive to the contextual complexities of mental ill-health in doctors, and that do not treat doctors as a uniform body, but allow distinctions to account for particular characteristics, such as specialty, career stage and different working environments.

Methods and analysis Our project aims to understand how, why and in what contexts support interventions can be designed to minimise the incidence of doctors' mental ill-health. We will conduct a realist review—a form of theory-driven interpretative systematic review—of interventions, drawing on diverse literature sources. The review will iteratively progress through five steps: (1) locate existing theories; (2) search for evidence; (3) select articles; (4) extract and organise data and (5) synthesise evidence and draw conclusions. The analysis will summarise how, why and in what circumstances doctors' mental ill-health is likely to develop and what can remediate the situation. Throughout the project, we will also engage iteratively with diverse stakeholders in order to produce actionable theory.

Ethics and dissemination Ethical approval is not required for our review. Our dissemination strategy will be participatory. Tailored outputs will be targeted to: policy makers; NHS employers and healthcare leaders; team leaders; support organisations; doctors experiencing mental ill-health, their families and colleagues. **PROSPERO registration number** CRD42017069870.

#### INTRODUCTION

The most tragic thing in the world is a sick doctor. (G.B. Shaw, 'The Doctor's Dilemma')<sup>1</sup>

#### Strengths and limitations of this study

- This is the first realist review of interventions to tackle the pressing problem of mental ill-health in doctors.
- Most published literature to date has tended to focus on workplace interventions aimed at increasing doctors' 'resilience', placing responsibility for good mental health with doctors themselves and neglecting the organisational and structural contexts that may have a detrimental effect on doctors' wellbeing.
- A realist review approach accounts for the complexity and many dimensions (eg, individual, organisational and sociocultural) of the problem of mental ill-health in doctors, and for particular characteristics, such as specialty, career stage and different working environments.
- The engagement of different audiences (eg, policy makers, doctors and healthcare leaders) in refining the programme theory will support the development of contextually sensitive strategies to tackle mental ill-health in doctors.
- Only studies published in the English language will be included.

## A universal truth: no health without a healthy workforce

'A universal truth: no health without a workforce' is the compelling title of a 2013 WHO's report on how the availability of healthcare staff underpins efforts to implement universal health coverage.<sup>2</sup> For the purposes of our research, we wish to expand this 'universal truth' to argue that there can be no health without a healthy workforce.

Because of its centrality to the delivery of excellent, equitable and increasingly complex healthcare (due also to biomedical innovation, ageing populations and the increase in multimorbidity), the clinical workforce is a focus of interest both globally, and at the level of individual countries.<sup>3–5</sup> However, like

the above mentioned WHO report, most of this research is driven by quantitative measures such as supply and demand projections based on demographics, disease incidence and the anticipated need for clinical workforce—but does not pay sufficient attention to an equally important factor: the clinical workforce's well-being.<sup>6</sup>

Nevertheless, the well-being of the clinical workforce is becoming a major healthcare issue—and this is shown by the growing incidence of mental ill-health (eg, stress, burnout, depression, drug and alcohol dependence, and suicide) across all groups of health professionals, and in many countries.<sup>7–11</sup> A 2014 study conducted by the American Medical Association and Mayo Clinic researchers reported that 54% of physicians in the USA are experiencing professional burnout—a higher rate than other professions.<sup>12</sup> Suicide rates are also high: a review of four decades of studies on physician's suicide estimated that the chances of dying by suicide are 70% higher than the general population for male physicians and 250%–400% for female physicians.<sup>13</sup>

The well-being of the clinical workforce is not only an important issue in itself, but can significantly impact workforce projections, the cost of healthcare and the quality of the care received by patients.<sup>6</sup> The 'Triple Aim' of improving the health of the population, improving patient experience and reducing cost is a widely adopted guidance to optimise healthcare services' performance with rising patient needs, financial constraints and workforce projections.<sup>14</sup> Bodenheimer and Sinsky argued for the importance of adding to this triad the 'Fourth Aim' of improving the work life of healthcare professionalsnoting how the positive engagement of the clinical workforce is key to achieve the health of the population (ie, the 'First Aim').<sup>15</sup> Similar arguments underpin recent calls for internationally coordinated research efforts to develop evidence-based strategies to tackle the high incidence of mental ill-health among healthcare professionals at a global level.<sup>16 17</sup>

In the UK the mental health of the National Health Service (NHS) workforce is of particular concern.<sup>18–22</sup> In 2015 the Head of Thought Leadership at the King's Fund declared that stress levels among NHS staff are 'astonishingly high' and require to be treated as a 'public health problem'.<sup>23</sup> In a similar vein to the international literature sketched above, the recent 2017 Lord Select Committee's report on the sustainability of the NHS and Adult Social care<sup>24</sup> states that 'the absence of any comprehensive national long-term strategy to secure the appropriately skilled, well-trained and committed workforce [...] represents the biggest internal threat to the sustainability of the NHS' (p. 35).

When faced with mental ill-health, healthcare professionals may feel they have to continue caring for patients despite their own difficulties (presenteeism),<sup>25–27</sup> or they may have to take sickness leave, which could result in gaps in the service (absenteeism),<sup>28</sup> or leave the NHS either temporarily or permanently (workforce retention).<sup>29–32</sup> Although mental ill-health is prevalent among

all groups of healthcare professionals working in the NHS, our research focuses on doctors across specialties and career stages. This focus reflects the current recruitment and workforce retention issues (eg, doctors-intraining, general practice and emergency medicine), the significant potential for sick doctors to inadvertently

#### Why are doctors particularly at risk of mental ill-health?

doctors' mental ill-health.821

Peer-reviewed and grey literature highlights a large number of individual, occupational and broader causative risk factors leading to mental ill-health which operate at a sociocultural level.<sup>29 33 34</sup>

cause harm to patients and the financial implications of

Overall, such factors include: the emotionally demanding nature of the profession<sup>28 35</sup>; the increasing workload resulting from attempting to provide more, and higher quality, care on shrinking budgets<sup>36</sup>; systems of clinical governance which are leading to loss of autonomy and erosion of professional values<sup>37</sup>; rigid organisational structures and inflexible working hours<sup>38</sup> and highly bureaucratic professional regulatory systems (eg, appraisals, revalidation, quality inspection visits, etc).<sup>39</sup> Doctors are also at higher risk than the general population to develop addiction and substance misuses because of their knowledge of and access to drugs, and potential to self-medicate.<sup>18</sup> All these factors may be intensified by a doctors' tendency to avoid seeking help and support when unwell or under pressure,<sup>40 41</sup> and by a perceived stigma among doctors around mental illness.<sup>10 42</sup>

The factors associated with mental ill-health and decisions to leave the medical profession have been described as heavy workload, long working hours, high levels of regulation and scrutiny, perceived reduced autonomy and fear of complaints and negligence claims.<sup>29 30</sup> Presenteeism in doctors may be underpinned by a fear of career repercussions, a fear of letting down colleagues and patients, the difficulties of arranging cover, a failure to prioritise their own health needs and a failure to recognise their own vulnerability to illness.<sup>22 43</sup> It seems that doctors may feel pressurised by collective norms to be present, but it is currently unclear whether this varies at different career stages or in different specialties.

#### **Current interventions and gaps**

There is a large literature on interventions that offer support, advice and/or treatment to doctors living with mental health difficulties, and that addresses the associated impacts such as presenteeism, absenteeism and workforce retention.<sup>31 34</sup> Most of this literature tends to focus on workplace interventions aimed at increasing doctors' 'productivity' and 'resilience', placing responsibility for good mental health with doctors themselves.<sup>21 44 45</sup> Such a tendency—which mirrors broader sociopolitical strategies and discourses<sup>46 47</sup>—neglects the organisational and structural contexts that may have a detrimental effect on doctors' well-being. This can potentially aggravate work-related pressure, leading to mental ill-health.

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Some scholars suggest that interventions should focus on organisational support and systemic factors contributing to mental ill-health, rather than on individual doctors<sup>22</sup>—highlighting the need to think in terms of 'organisational resilience'.<sup>45</sup>

From a systems level, Wallace *et al*<sup>11</sup> categorise interventions into workplace and profession awareness, management and prevention; physician self-care and prevention; physician treatment and recovery; and improved patient care and system outcomes.

As the 'culture of medicine' starts early in undergraduate medical programmes, doctors-in-training are affected both directly (eg, by becoming ill themselves) and indirectly (eg, through their colleagues being ill) by mental ill-health. Therefore strategies should also start early in a doctor's career, with medical training emphasising pathways for help and increasing awareness—and destigmatisation—of mental illness in doctors.<sup>48</sup>

This knowledge of interventions that offer support, advice and/or treatment to doctors experiencing mental ill-health has not been synthesised in a way that takes account of their complexity and heterogeneity. Currently, it is not clear which components within these interventions matter more (or less) than others, for whom they matter and in what contexts. For example, a given intervention might work well for some doctors and not others (which might be influenced by personal factors such as age, gender and seniority); and in some contexts and not others (as it might be influenced by organisational factors such as the degree of organisational change or societal factors such as recent media portrayal).

Therefore there is a need for research approaches that are sensitive to the contextual complexities of the problem of mental ill-health in doctors. These methodologies should not treat doctors as a uniform body, but they should allow distinctions to account for particular characteristics, such as specialty and career stage, and different working environments.

#### METHODS AND ANALYSIS Project aim

This research aims to improve understanding of how, why and in what contexts mental health services and support interventions can be designed in order to minimise the incidence of doctors' mental ill-health.

#### **Project objectives**

- To conduct a realist review on interventions to tackle doctors' mental ill-health and its impacts on the clinical workforce and patient care, drawing on diverse literature sources and engaging iteratively with diverse stakeholder perspectives to produce actionable theory.
- 2. To produce recommendations that support the tailoring, implementation, monitoring and evaluation of contextually sensitive strategies to tackle mental illhealth and its impacts.

#### **Review questions**

- 1. What are the processes by which mental ill-health in doctors develops and leads to its negative impacts, and where are the gaps that interventions do not address currently?
- 2. What are the mechanisms, acting at individual, group, profession and organisational levels, by which interventions to reduce doctors' mental ill-health at the different stages are believed to result in their intended outcomes?
- 3. What are the important contexts which determine whether the different mechanisms produce the intended outcomes?
- 4. What changes are needed to existing and/or future interventions to make them more effective?

#### **Research plans**

Objective 1: to conduct a synthesis of the literature using a realist review approach

Any evidence synthesis that seeks to make sense of interventions aiming to improve doctors' mental ill-health must take into account the contexts in which these interventions are situated. This will generate an in-depth understanding of which components within these interventions matter more (or less) than others, for whom they matter and in what ways. A realist review can synthesise relevant data found within qualitative, quantitative and mixed-methods research. By following an interpretive, theory-driven approach to analysing data from such diverse literature sources, realist reviews move beyond description, to provide findings that coherently and transferably explain how and why contexts can influence outcomes.

The plan of investigation will follow a detailed realist review protocol informed by Pawson's five iterative stages in realist reviews<sup>49</sup> and the Realist And Meta-narrative Evidence Syntheses—Evolving Standards quality and publication standards for realist reviews.<sup>50 51</sup>

The realist review protocol is registered with International Prospective Register of Systematic Reviews.<sup>52</sup> The review process also incorporates iterative cycles of engagement with the literature and with our Stakeholder Group (comprising clinicians, service users, senior NHS managers, therapists working with 'sick doctors', policy makers and charities), who will provide their own perspectives on the positive and negative interactions between healthcare contexts, the development of mental ill-health in doctors, and the subsequent impacts such as presenteeism, absenteeism and workforce retention. These cycles of engagement will enable the production of action-oriented middle-range theory which can inform change at individual, group, profession and organisational levels (see also Objective 2 below).

#### Step 1: locate existing theories

The goal of this step is to identify theories that explain how interventions aiming to support doctors challenged by mental ill-health are supposed to work (and for whom), when they do work, when they do not achieve the desired change in practice, why they are not effective and why they are not being used. The rationale for this step is that interventions are 'theories incarnate'—that is, such interventions are underpinned by assumptions about why certain components are required. In other words, the designers of interventions have put them together in a certain way based on their theories about what needs to be done to get one or more desired outcomes.<sup>53</sup>

To locate these theories, in the first instance we will iteratively: (1) draw on ongoing qualitative interviews (already conducted by DC) with the clinical team of therapists working at the NHS Practitioner Health Programme<sup>i</sup>; (2) consult with key content experts representing multidisciplinary perspectives in our Stakeholder Group and (3) draw on an exploratory search of relevant literature.

Building the programme theory will require iterative discussions within the project team to make sense of and synthesise the different theories into an initial programme theory. The project team will also organise stakeholder and 'sense-making' meetings to discuss and refine the programme theory.

#### Step 2: search for evidence

*Formal search:* The purpose of this Step is to find a relevant 'body of literature' that might contain data with which to further develop and refine the programme theory from step 1. Searching will be designed, piloted and conducted by an information specialist (SB).

We anticipate that we may need to search the following databases: MEDLINE, MEDLINE-in-Process, PsycINFO, Applied Social Sciences Index and Abstracts and any other relevant databases identified by the information specialist. We will also undertake forward citation searches and search the citations contained in the reference lists of relevant documents. We anticipate that we will search the databases using search terms for 'doctors', 'mental ill-health', 'absenteeism', 'presenteeism' and 'workforce retention', although the exact terminology, syntax and search structure will be determined by the results of step 1. Subject headings relevant to each database will also be used, for example, MeSH for MEDLINE.

*Screening*: We will include literature relating to all doctors from the outset. We believe greater explanatory insight might be attained by looking across stages of training and across specialties, particularly since our preliminary work suggests common mechanisms may be at play in different settings (eg, inflexible working patterns and wider NHS culture).

The following initial inclusion criteria will be applied:

Mental ill-health and its impacts (eg, presenteeism, absenteeism and workforce retention): all studies that focused on one or more of these aspects. Note, generic occupational health services targeting whole

populations of doctors, rather than doctors experiencing mental ill-health for doctors, would not be included.

- ► Study design: all study designs.
- ► Types of settings: all healthcare settings.
- Types of participants: all studies that included medical doctors.
- Types of intervention: interventions or resources that focus on improving mental ill-health and minimising its impacts.
- Outcome measures: all mental health outcomes and measures relevant to its impacts (eg, absenteeism, presenteeism and workforce retention).

Screening will be undertaken by DC. A 10 % random sub sample of the citations retrieved from searching will be reviewed independently for consistency by CP. Any disagreements will be resolved by discussion between the DC and CP (the second reviewer). If disagreements remain then the matter will be presented to the whole project team for discussion and resolved by majority vote.

Additional searching: An important process in realist reviews is finding additional data to confirm, refine or refute aspects of developing programme theory. More searches will be undertaken if we find that we require more data to develop and confirm, refute or refine certain subsections of the programme theory. To learn more about the influence of wider contexts on mental ill-health and its impacts, we may also look at literature about doctors working in other countries, other groups of healthcare professionals working in the UK and professions outside healthcare who experience the same broader societal changes but in a different industry. Searches may also seek to identify 'good practice' examples in healthcare, where mental ill-health of some institutions is particularly low (eg, Monrouxe and Rees<sup>54</sup>). For each additional search the project team will meet to discuss and set inclusion and exclusion criteria. Different search terms and databases are likely to be needed for these purposive searches which will be developed, piloted and conducted in conjunction with our information specialist (SB). The screening processes will be as described above. Where applicable, we will follow the search strategies proposed by Booth *et al* which have been developed for such data.<sup>55</sup>

#### Step 3: article selection

Documents will be selected based on relevance (whether data can contribute to theory building and/or testing) and rigour (whether the methods used to generate the relevant data are credible and trustworthy).<sup>53</sup> Even when a document from the initial search has been screened and has met inclusion criteria, it may still not contain any data that is relevant for programme theory development and refinement.

Included papers would be divided into those which can make 'major' or 'minor' contributions to our research question. For example, we may classify as 'major' those studies conducted in countries where doctors predominantly work in universal, publicly funded healthcare

<sup>&</sup>lt;sup>i</sup>A national centre that provides support to doctors and other healthcare professionals experiencing mental ill-health (for more information visit http://php.nhs.uk/).

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systems with similarities to the NHS; or those where the mechanisms (which cause doctors' mental ill-health to develop) are similar, even if they are operating in different contexts. This will enable us to focus effort on the studies which make a major contribution, while ensuring that we do not miss any important relevant data from the wider literature. In this way we will inevitably prioritise studies from the UK but also include studies from other countries that provide useful insights for the UK. This strategy will enable us to be rigorous while keeping the project manageable. Our provisional criteria for classifying studies as 'major' or 'minor' are:

Major:

- Studies which contribute to the research questions and are conducted in an NHS context.
- Studies which contribute to the research questions and are conducted in contexts (eg, universal and publicly funded healthcare systems) with similarities to the NHS.
- Studies which contribute to the research questions and can clearly help to identify mechanisms which could plausibly operate in the context of the NHS. Minor:
- Studies conducted in healthcare systems that are markedly different to the NHS (eg, fee-for service and private insurance scheme systems) but where the mechanisms could plausibly operate in the context of doctors working in the NHS.

Classification decisions will be checked between two reviewers (DC and CP) and discussed with the rest of the team. A random sample of 10% of documents will be selected, assessed and discussed between the DC and CP to ensure that decisions for final inclusion have been made consistently. The remaining 90% of decisions will be made by DC. We will employ the same decision making process as outlined above in step 2. Article selection for any additional searches will follow the process described above.

#### Step 4: extracting and organising data

The full texts of the included papers will be uploaded in NVivo QRS International (a qualitative data management software). Relevant sections of texts interpreted as contexts, mechanisms and/or their relationships to outcomes will be coded in NVivo. At the initial stages the coding will be both inductive (codes created to categorise data reported in included studies) and deductive (codes created in advance of data extraction and analysis as informed by the initial programme theory).<sup>56</sup> The main analysis of the realist review will be retroductive. Each new element of relevant data will be used to refine aspects of the programme theory, and as it is refined, included studies and documents will (where necessary) be rescrutinised to search for data relevant to the revised programme theory that may have been missed initially. The characteristics of the studies and interventions will be extracted separately into an Excel spreadsheet to provide a descriptive overview.

We shall also extract (from included documents) all data on the cost of various interventions to tackle doctors' mental ill-health, but we shall not undertake a formal health economic assessment. Our goal is to identify what data exist on costs and also if any of these are useful in helping us to suggest any implications for policy and practice. During the review process, we will extract the following types of economic data or information (where available):

- direct costs of interventions;
- indirect costs relating to the intended beneficial effects of interventions (accessing mental health services, Occupational Health consultations and so on);
- unit costs and total costs;
- ► currency;
- time period to which economic data relates.

The way that economic evaluations are conducted and reported makes it unlikely to be possible to link the data in any included economic evaluations directly to the context-mechanism-outcome configurations (CMOCs) identified in the realist review. We therefore anticipate presenting the cost information, where it is available, separately from the CMOCs, which will make it easily accessible to readers interested in this particular area.

DC will undertake data extraction and organisation. A random sample of 10% of coded documents will be independently checked by CP for consistency. Any disagreements will be resolved by discussion between the DC and CP. If disagreements still remain then a third member of the project team will be asked for their opinion and resolution will be by majority vote. We will start the coding and analysis process by using the literature that has been deemed to make a 'major' contribution to the research questions to continue building and refining our programme theory, while progressively focusing the review. Articles categorised as providing 'minor' contributions will be analysed to address particular aspects of the programme theory where necessary. The aim of the analysis will be to reach theoretical saturation in understanding the problem of mental ill-health, rather than to aggregate every single study that exists in the area. Decisions about whether a study can have a 'major' or 'minor' contribution may change over the course of the project, as the analysis progresses. All changes will be documented and recorded as part of an audit trail to increase transparency and ensure consistency.

#### Step 5: synthesising the evidence and drawing conclusions

In step 5 we will continue to use a realist logic of analysis to build CMOCs. These will aim to explain the outcomes resulting from the intervention strategies discussed in the included documents. For example, we will use interpretative cross-case comparison to explain how and why observed outcomes have occurred, by comparing interventions where reducing mental ill-health has been 'successful' against those which have not, to understand how context has influenced reported findings. To achieve this, we will continue to interpret the data to ascertain if it pertains to contexts (C), mechanisms (M) and outcomes (O), the relationships between C, M and O and/or the relationships between CMOCs.<sup>53</sup> This type of analysis will enable us to understand the behaviour of the most relevant and important mechanisms under different contexts, thus allowing us to build more transferable CMOCs. We will be drawing on substantive and formal theory to inform programme theory development.

During the review, we move iteratively between the analysis of particular examples from the literature, refinement of programme theory, and further iterative searching for data to test particular subsections of the programme theory.

Finally, when making sense of our data during analysis we will use the following analytic thinking processes<sup>57</sup>:

- 1. Juxtaposition of sources of evidence—for example, where evidence about behaviour change in one source enables insights into evidence about outcomes in another source.
- 2. Reconciling of sources of evidence—where results differ in apparently similar circumstances, further investigation is appropriate in order to find explanations for why these different results occurred.
- 3. Adjudication of sources of evidence—on the basis of methodological strengths or weaknesses.
- 4. Consolidation of sources of evidence—where outcomes differ in particular contexts, an explanation can be constructed of how and why these outcomes occur differently.

# Objective 2: design contextually sensitive strategies to tackle mental ill-health and its impacts on doctors, their colleagues and their patients

We will use the 'Evidence Integration Triangle' (EIT)<sup>58</sup> as a framework for bringing together stakeholders around evidence in a collaborative, action-oriented way. Using the EIT will enable us to create a facilitative environment in which research can inform practical decision-making, and for experiential knowledge from lived experiences and from professional practice to inform interpretation of that research.

We will use the three components of the EIT ((1) practical evidence-based interventions; (2) pragmatic, longitudinal measures of progress and (3) participatory implementation processes) to structure and inform the facilitation of the Stakeholder Group meetings and a workshop with policy makers. The timing of these meetings has been selected to maximise input to the realist review process and enable local, regional and national dissemination at the most appropriate stages of the project.

#### DISSEMINATION

We would like to engage different types of audiences and the key messages and communication strategies will be tailored to respond to their needs. The Stakeholder Group will be well placed to advise on the key audiences and how we should target messages to that audience. We will also draw on existing networks and communication strategies, for example existing links with clinicians and professional bodies, wherever possible to reach the widest possible number of beneficiaries. So far we have identified five key audiences that we would like to engage and reach with our dissemination strategy:

- ► Group 1: policy makers who can influence change that will affect doctors at a national level.
- Group 2: employers and healthcare leaders who can shape the structure of organisations in which doctors work.
- Group 3: team leaders who can shape the immediate working environment for individual doctors.
- Group 4: national, regional and local groups and organisations that provide support to doctors experiencing mental ill-health.
- ► Group 5: doctors who are experiencing mental ill-health, and their families and colleagues.

We want to ensure that this project's outputs will be useful to the NHS and will address this by producing outputs that are deemed appropriate and relevant by our different groups of stakeholders, and acknowledging likely implementation barriers. The project will produce five major types of output. We will consult with our Stakeholder Group and use their knowledge and experience to refine the development, presentation and dissemination of these outputs:

- Conventional academic forms. A report for publication in the National Institute for Health Research HS&DR Journal; a report for publication in a high-impact peer-reviewed journal and conference presentations. This will inform the agenda for debate and action in health services and in public policy more widely (groups 1–5).
- 2. More innovative forms. Depending on the results of the realist review, we propose to translate some of our outputs into comics, animations and/or information graphics that might be distributed more widely (eg, for notice boards on wards, inductions and teaching sessions) to raise awareness and normalise mental health issues. As demonstrated previously, comics can provide an appropriate format for tackling delicate issues such as mental ill-health<sup>59</sup> (group 5).
- 3. Measures/indicators. This builds on our use of the EIT to inform our interpretation/dissemination strategy and would be offered for use in existing systems to monitor and evaluate the impact of changes made based on our research findings. This will enable front-line staff and managers to implement and monitor the impact of research-informed changes in practice (groups 1–4).
- 4. Plain English summaries. The research findings would be tailored to different audiences (eg, doctors, patients, health service managers, medical educators and policy makers). This will provide a meaningful

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summary of findings which increase stakeholders' recognition and understanding of the issue and how evidence can inform actions they can take (groups 1–5).

**Contributors** KM and MP conceptualised the study with input from SB, CP, DC, MJ and GW. DC wrote the first draft of this manuscript. SB, CP, KM, MP and GW critically contributed to and refined this manuscript. SB, CP, DC, KM, MP, MJ and GW read and approved the final manuscript.

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