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Returning to clinical work and doctors’ personal, social and organisational needs: a systematic review

Chris Attoe, Raluca Matei, Laura Thompson, Kevin Teoh, Sean Cross, Tom Cox

ABSTRACT

Objective This systematic review aims to synthesise existing evidence on doctors’ personal, social and organisational needs when returning to clinical work after an absence.

Design Systematic review using Preferred Reporting Items for Systematic Reviews and Meta-Analyses guidelines.

Data sources AMED, BNI, CINAHL, EMBASE, EMCARE, HMIC, Medline, PsycINFO and PubMed were searched up to 4 June 2020. Non-database searches included references and citations of identified articles and pages 1–10 of Google and Google Scholar.

Eligibility criteria Included studies presented quantitative or qualitative data collected from doctors returning to work, with findings relating to personal, social or organisational needs.

Data extraction and synthesis Data were extracted using a piloted template. Risk of bias assessment used the Medical Education Research Study Quality Instrument or Critical Appraisal Skills Programme Qualitative Checklist. Data were not suitable for meta-analyses and underwent narrative synthesis due to varied study designs and mixed methods.

Results Twenty-four included studies (14 quantitative, 10 qualitative) presented data from 92692 doctors in the UK (n=13), US (n=4), Norway (n=3), Japan (n=2), Spain (n=1), Canada (n=1). All studies identified personal needs, categorised as work–life balance, emotional regulation, self-perception and identity, and engagement with return process. Seventeen studies highlighted social needs relating to professional culture, personal and professional relationships, and illness stigma. Organisational needs found in 22 studies were flexibility and job control, work design, Occupational Health services and organisational culture. Emerging resources and recommendations were highlighted. Variable quality and high risk of biases in data collection and analysis suggest cautious interpretation.

Conclusions This review posits a foundational framework of returning doctors’ needs, requiring further developed through methodologically robust studies that assess the impact of length and reason for absence, before developing and evaluating tailored interventions. Organisations, training programmes and professional bodies should refine support for returning doctors based on evidence.

INTRODUCTION

As increasing numbers leave the medical profession and population health needs grow, the importance of sustaining and expanding the medical workforce has considerable implications for global health. Recruitment, retention and professional support are crucial to the sustainability of medical workforces. There are around 53000 trainee doctors in the UK National Health Service, with 10% absent from clinical work each year. Understanding doctors’ needs when returning to clinical work after an absence is essential to their working lives and to enhancing recruitment and retention. Support during this potentially challenging time can allow doctors to feel valued, develop strengths from their experience of absence, and access resources to improve the return to work (RTW) journey, subsequent careers and patient care. Support can mitigate disadvantage from changing circumstances relating to RTW, such as caring responsibilities, stigma towards illness, gender discrimination...
and career progression. The COVID-19 pandemic has encouraged doctors to return in record numbers and highlighted the need to support this group.  

However, there is a lack of evidence on the needs of doctors returning to work, and thus the support required. UK-based evidence shows absences from clinical work are due to ill-health; parental leave; fitness-to-work issues; carer responsibilities; and education, research or career breaks. During this time, clinical skills can fade and doctors report issues relating to clinical skills and knowledge.  However, more research is required to understand the different work-related needs of returning doctors. Drawing on the research on sickness absence, career breaks and leavers, and the views of medical supervisors and support services, these needs can broadly be categorised into personal, social and organisational needs.  

Personal needs include psychological considerations of identity, emotional needs and self-efficacy, alongside practical considerations of childcare, finance and work-life balance (WLB). Social needs include support from family and friends, senior colleagues and peers or team members, as well as the views and attitudes of these groups towards the returner and their situation.  Organisational needs range from workplace culture and support, to job design, working conditions, control and flexibility. However, this evidence remains preliminary, does not focus directly on RTW and does not constitute high quality empirical evidence. Nonetheless, professional guidance exists on measures to support returning doctors, alongside examples of ad hoc support programmes, tailored training and keeping-in-touch initiatives. While these efforts represent the perceived knowledge of professional bodies and doctors’ reported preferences, a robust evidence base is lacking, presenting a challenge to those aiming to support doctors with scant evidence to draw on. Tailored evidence involving doctors returning to work that acknowledges the unique context of the medical profession is required, including: the nature of clinical work; long training period; regular work rotations and unique career path; complex relationships between employers, training programmes, professional bodies and regulators; and high likelihood of a break from clinical work during training. This systematic review aims to collate and synthesise the evidence on doctors’ personal, social and organisational needs when returning to clinical work.

**METHODS**

This systematic review was aligned to the Preferred Reporting Items for Systematic Reviews and Meta-Analyses 2020 checklist and was not registered (see online supplemental appendix 1).

**Information sources and search strategy**

Nine electronic databases were searched up to 4 June 2020—AMED, BNI, CINAHL, EMBASE, EMCARE, HMIC, Medline, PsyctINFO, PubMed (see table 1, full search strategies available as online supplemental file).

<table>
<thead>
<tr>
<th>Table 1 Search terms</th>
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<tbody>
<tr>
<td><strong>Search terms</strong></td>
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<tr>
<td>Population</td>
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<tr>
<td>Doctor* OR Physician*</td>
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<tr>
<td>AND</td>
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<tr>
<td>Condition</td>
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<tr>
<td>“Back-to-work” OR “Back to work” OR “Return-to-work” OR “Return to work” OR “Return to practice” OR “Return to training” OR “Job return” OR absen* AND</td>
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<tr>
<td>Outcomes</td>
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<tr>
<td>“Job resource”* OR “Work resource”* OR Psychosocial OR “Psych” need* OR “Personal need”* OR “Psych” issue* OR “Personal issue”* OR “Psych” concern* OR “Personal concern”* OR Psychological OR “health need”* OR “social need”* OR “organisation” need OR “work” need NOT Patient</td>
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</tbody>
</table>

The reference lists and citing papers of identified articles were searched for relevant studies. Grey literature searches included the first 10 pages on Google and Google Scholar.

Database searches yielded 1684 studies. CA screened all titles and abstracts, then all full texts based on eligibility criteria (see figure 1). RM screened a random sample of 20% of studies at both title and abstract, and full text stages. Substantial inter-rater agreement was found (K=0.743 and K=1 respectively). SC also screened 20% of studies at full text stage with good inter-rater agreement compared with CA (K=1).

**Eligibility criteria**

Identified studies had five inclusion–exclusion criteria applied. Academic or grey literature must have presented quantitative or qualitative data and analysis. Study participants must have been doctors sharing personal experiences; students or doctors participating as supervisors or occupational health (OH) experts were excluded. Included studies must focus on doctors intending to or having returned to clinical work, while absences may be for any reason. Outcomes must have related to personal, social or organisational needs. Studies must be available in English.

**Quality, bias assessment and data extraction**

The Medical Education Research Study Quality Instrument (MERSQI) was used to assess quality and bias for quantitative studies. This 10-item methodological quality checklist includes study design, institution(s), response rate, type of data, content and criterion validity, data analysis and outcome levels, with scores from 5 to 18 (low to high quality).

Qualitative studies were assessed using the Critical Appraisal Skills Programme Qualitative Checklist, referenced by the Cochrane Collaborative Qualitative Methods Group. Ten questions cover aims, design, data collection, analysis and interpretation, ethics and bias, and are answered ‘yes’, ‘no’ or ‘can’t tell’ with ‘yes’ representing higher quality. No scoring system is suggested, rather criteria guide subjective appraisal of low to high quality.
Figure 1  Flow chart of study selection process. RTW, return to work.

A data extraction form was piloted and subsequently used for included studies. Extraction was completed by CA and captured only data relevant to the study aim, including biases.26 Data extracted underwent narrative synthesis in line with comprehensive guidance as meta-analyses were not suitable due to varied study designs and mixed methods data in the final sample.27 CA and SC discussed independent synthesis to reach consensus on findings and their categorisation, which were reviewed by all authors.

Patient and public involvement
The review has no patient or public involvement. However, doctors with lived experience of RTW were consulted on the research aims, search terms, and presentation of findings, and included as coauthors where authorship guidelines were met.

RESULTS
Study characteristics and quality
Twenty-four studies met the inclusion criteria (table 2, full data extraction in online supplementary file 3 ‘Full data extraction, study characteristics and findings’). Studies were mostly UK based (n=13), quantitative (n=14) and involved data from 92,692 doctors, with sample sizes ranging from 10 to 86,459. Six out of the 14 quantitative studies included additional qualitative data and analysis, without being considered as separate qualitative studies. The most common methodologies were qualitative designs using semistructured interviews (n=9), and quantitative or mixed-methods cross-sectional designs using de novo surveys (n=8). Five studies made between groups comparisons including three using non-validated surveys and two using objective clinical data, while one study used naturalistic observation and the final one was a 3-year follow-up intervention study. Outcomes observed varied widely, with eight studies assessing experience of leave and RTW, five assessing barriers to RTW and the remainder ranging from individual factors such as self-efficacy, infant-feeding behaviour and WLB, to prevalence and personal characteristics of sick leave. The most common reason for absence was sick leave (n=10), followed by parental leave (n=5) and studies that included all reasons (n=5). Not all studies reported participant demographics. Among those that did, primary care doctors were the most common medical specialty, samples were largely female, while a range of career stages and workplace settings were represented.

The mean quantitative study quality score (table 3) was 9.7 out of 18 (range 7–17), slightly lower than for previously published reviews using the MERSQI.20 28 Of the 14 quantitative studies, the most common methodological limitations were cross-sectional survey designs without comparison groups or follow-up time points (n=8), use of only descriptive analysis (n=7) and reliance on self-report data (n=11). The validity of self-report measures and response rates were often unclear. Outcomes were often perception, attitude and experience based rather than measuring behaviour or health/patient outcomes (n=11). Encouragingly, data were often collected from multiple institutions with moderate to large sample sizes.
<table>
<thead>
<tr>
<th>Authors</th>
<th>Study design</th>
<th>Condition/absence details</th>
<th>Data analysis</th>
<th>Sample</th>
<th>Recruitment/sampling</th>
<th>Setting</th>
<th>Demographics</th>
<th>Response rate</th>
<th>Key findings—personal, social, organisational needs</th>
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</thead>
<tbody>
<tr>
<td>AoMRC (2016)²</td>
<td>Cross-sectional survey</td>
<td>Barriers experienced—de novo mixed methods survey ('Flexibility and Equality Parental Leave Survey')</td>
<td>Parental leave</td>
<td>Mixed method—Descriptive statistics</td>
<td>1225 doctors</td>
<td>Invitation email to every member from each UK Medical Royal College</td>
<td>UK</td>
<td>70% female, 70% 31–46 years of age, spread across UK and specialties, 79% white ethnic background, majority doctors in training, 60% had more than 1 instance of parental leave</td>
<td>84% response rate</td>
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<td>Authors</td>
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<td>Brooks et al (2014)</td>
<td>Qualitative semistructured interviews</td>
<td>Experience of sick leave and RTW—2 hours semistructured interview</td>
<td>Sick leave—any illness, for at least 6 months</td>
<td>Qualitative—Thematic analysis</td>
<td>19 doctors</td>
<td>Invitation email via a medical charity, UK regulator or confidential doctor health service</td>
<td>UK</td>
<td>10/19 female, age range 20s-60s, 18/19 mental health problems/ addictions, 7 physical health problems, 14 involved with General Medical Council</td>
<td>25% response rate</td>
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<tr>
<td>Doran et al (2014)</td>
<td>Qualitative semistructured interviews</td>
<td>Reasons for leaving and barriers to returning—40-60 min semistructured interview</td>
<td>Career break or leavers</td>
<td>Qualitative—Thematic analysis</td>
<td>21 primary care doctors</td>
<td>Volunteer sampling following participation in an online survey (survey sampling not described)</td>
<td>UK</td>
<td>67% female, age range 32–54, years as a GP 2.5–20</td>
<td>55% response rate</td>
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<tr>
<td>Fox et al (2009)</td>
<td>Qualitative semistructured interviews</td>
<td>Experience of sick leave and RTW—semistructured interviews</td>
<td>Sick leave—any serious illness</td>
<td>Qualitative—Interpretative Phenomenological Analysis</td>
<td>17 primary care doctors</td>
<td>Invitation email via regional primary care provider and commissioner</td>
<td>UK</td>
<td>10/17 male, 31–69 years of age, mean 46 years, 16/17 white British</td>
<td>Not reported</td>
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<tr>
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<td>Gordon and Szram (2013)[32]</td>
<td>Cross-sectional survey</td>
<td>Experience of paternity leave—he novo mixed methods survey</td>
<td>Parental leave—paternity</td>
<td>Mixed method—Descriptive statistics</td>
<td>364 doctors</td>
<td>Invitation message via a professional network</td>
<td>UK</td>
<td>32% consultants, 56% registrars, 10% more junior doctors, range of specialties</td>
<td>Not reported</td>
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<tr>
<td>Grant et al (2019)[33]</td>
<td>Biographical narrative interviewing method</td>
<td>Experience of mental health condition—biographical narrative interviews</td>
<td>Sick leave—mental health condition</td>
<td>Qualitative—Thematic analysis</td>
<td>10 doctors</td>
<td>Invitation email via Health Education England and Wales Deanery, final sample selected purposively</td>
<td>UK</td>
<td>8/10 female, post-medical degree to registrar, cross-specialty</td>
<td>Not reported</td>
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<tr>
<td>Henderson et al (2012)[34]</td>
<td>Qualitative semistructured interviews</td>
<td>Barriers experienced—1–3 hours semistructured interviews</td>
<td>Sick leave—any illness, for at least 6 months</td>
<td>Qualitative—Thematic analysis</td>
<td>19 doctors</td>
<td>Invitation email via a medical charity, UK regulator or confidential doctor health service</td>
<td>UK</td>
<td>10/19 female, age range 20s–60s, 18/19 mental health problem/addiction, 7 physical health problems, 14 involved with GMC</td>
<td>25% response rate</td>
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<td>Hertzberg et al. (2016)</td>
<td>Qualitative interviews</td>
<td>WLB and professional dedication—60–90 min focus group interviews</td>
<td>All reasons included</td>
<td>Qualitative—Systematic text condensation</td>
<td>48 hospital doctors</td>
<td>Invitation email via union representatives and senior managers</td>
<td>Norway</td>
<td>56% female, 5–45 years experience, 22 registrars and 26 consultants, 19 Psychiatry, 15 internal medicine, 14 surgery</td>
<td>Not reported</td>
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<tr>
<td>McKevitt et al. (1997)</td>
<td>Between groups comparison</td>
<td>Prevalence and decision-making—quantitative survey and qualitative interviews</td>
<td>Sick leave—any illness</td>
<td>Mixed method—One-way ANOVA, logistic regression and thematic analysis</td>
<td>1102 doctors (532 primary care, 506 hospital doctors, 64 additional interviews)</td>
<td>Postal invitation survey via 3 NHS Trusts and 2 primary care providers</td>
<td>UK</td>
<td>Reported by each group in full in the paper</td>
<td>74% response rate</td>
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<thead>
<tr>
<th>Authors</th>
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<th>Response rate</th>
<th>Key findings—personal, social, organisational needs</th>
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<tbody>
<tr>
<td>Miller (2009)</td>
<td>Cross-sectional survey</td>
<td>Experience of mental health condition - mixed methods survey</td>
<td>Sick leave - mental health condition</td>
<td>Mixed method—Descriptive statistics and content analysis</td>
<td>116 doctors</td>
<td>Invitation message via a doctors peer support organisation (Doctors Support Network)</td>
<td>UK</td>
<td>Mean age 45 (range 26–68), 63% female</td>
<td>35% response rate</td>
<td>On returning there was a significantly lower proportion of full time work, replaced by part time working. RTW should be supported with a combination of personal, social and workplace strategies, preceded by preventative approaches where possible. Personal - WLB, caregiver duties, career support and damage, personal-professional identity, financial considerations. Social - family and social support, colleague stigma and negative attitudes. Organisational - flexibility in working role, OH support.</td>
</tr>
<tr>
<td>Nomura et al (2015)</td>
<td>Cross-sectional qualitative survey</td>
<td>Barriers experienced—de novo qualitative survey</td>
<td>All reasons included</td>
<td>Qualitative—Kawakita Jiro method (explained in full in paper)</td>
<td>359 female doctors</td>
<td>Invitation email via alumni association</td>
<td>Japan</td>
<td>Median age 45 (range 38–53), 91% working clinically, 60% full time, 74% had children</td>
<td>Not reported</td>
<td>Personal - childcare and caregiver role, confidence in managing WLB, professional drive and identity. Social - expectation on working parents to manage personal and professional role. Organisational - work design (long hours and shift patterns), workload and staffing management (staff shortages).</td>
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Table 2 Continued

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<th>Authors</th>
<th>Study design</th>
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<th>Response rate</th>
<th>Key findings—personal, social, organisational needs</th>
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<tbody>
<tr>
<td>Pérez-Álvarez et al (2019)</td>
<td>Qualitative semistructured interviews</td>
<td>Experience of illness—semistructured interviews</td>
<td>Sick leave—any serious illness</td>
<td>Qualitative—Inductive qualitative data analysis</td>
<td>10 doctors</td>
<td>Intentional sampling, no further description</td>
<td>Spain</td>
<td>Not reported</td>
<td>Not reported</td>
<td>Personal - career support and damage, clear information, emotional needs, self-view (feel failure, failing colleagues), finance. Social - support from a mentor/supervisor, colleagues' views. Organisational - clear giving of info, workplace and role adaptations, job control</td>
</tr>
<tr>
<td>Reese et al (2015)</td>
<td>Cross-sectional survey</td>
<td>Self-efficacy, clinical procedures—de novo survey ('Redeployment Specialty Skills Matrix Survey')</td>
<td>Active military duty</td>
<td>Quantitative—Descriptive statistics and χ²</td>
<td>179 family medicine doctors</td>
<td>Invitation email to all active duty medical officers eligible for redeployment via Army Medical Centre</td>
<td>USA</td>
<td>Not reported</td>
<td>49% response rate</td>
<td>Self-efficacy increased significantly for management of major trauma and significantly reduced or did not change for all other procedures/scenarios, demonstrating reduced self-efficacy. Personal - self-efficacy for clinical procedures</td>
</tr>
<tr>
<td>Rizan et al (2019)</td>
<td>Qualitative semistructured interviews</td>
<td>Reasons for career break—30–45 min semistructured interview</td>
<td>Career break or leavers—1 year break</td>
<td>Qualitative—Content analysis</td>
<td>14 foundation year doctors (2–3 years post medical degree)</td>
<td>Invitation email from training programme, final sample selected purposively</td>
<td>UK</td>
<td>8/14 female, mean age 30 (range 27–35), 10/14 white British</td>
<td>Not reported</td>
<td>A career break can have a positive personal impact on doctors and provide resources for their future career and practice. Personal - fatigue, exhaustion and stress, career support and decisions, job and career control, integrating personal experiences into being doctors (personal-professional identity)</td>
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<tr>
<th>Authors</th>
<th>Study design</th>
<th>Variable/outcome measurement</th>
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<th>Demographics</th>
<th>Response rate</th>
<th>Key findings – personal, social, organisational needs</th>
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<tbody>
<tr>
<td><strong>Rosta et al</strong> (2014)<strong>&lt;sup&gt;42&lt;/sup&gt;</strong></td>
<td>Between groups comparison</td>
<td>Characteristics of sickness absence—de novo quantitative survey</td>
<td>Sick leave - any illness</td>
<td>Quantitative—χ², ANOVA, logistic regression</td>
<td>948 doctors (521 hospital doctors, 313 self-employed primary care or private doctors)</td>
<td>Data from previous study, postal survey from Norwegian Medical Association to a representative panel of Norwegian doctors</td>
<td>Norway</td>
<td>Reported by each group in full in the paper</td>
<td>62% response rate</td>
<td>Self-employed doctors (primary care and private practice) are less likely to take sick leave, other than for serious and chronic conditions. Low professional autonomy and poor self-rated health predict sickness absence, more so that work stress, age and gender. Personal - self-view of health. Organisational - professional autonomy</td>
</tr>
<tr>
<td><strong>Sattari et al</strong> (2016)<strong>&lt;sup&gt;43&lt;/sup&gt;</strong></td>
<td>Cross-sectional survey</td>
<td>Infant-feeding intention and behaviour—de novo quantitative survey</td>
<td>Parental leave—maternity</td>
<td>Quantitative— Descriptive statistics and inferential analysis (no further details given)</td>
<td>72 female internal medicine doctors</td>
<td>Data from previous study, recruitment email via training programme directors and hospital Women’s Task Force</td>
<td>USA</td>
<td>Mean age 38 (range 27–58), 26% trainees and 74% consultants, range of Internal Medicine specialties</td>
<td>Not reported</td>
<td>Only 26% of respondents had received education about breastfeeding. Breastfeeding intention is high but behaviour is prevented due to work factors, including insufficient time for milk expression and inadequate milk supply. Personal - education and awareness, managing disclosure. Social - colleague and peer support. Organisational - flexibility and time through work design, senior colleague awareness and supportive, facilities</td>
</tr>
<tr>
<td>Authors</td>
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<td>Saunders et al (2020)</td>
<td>Naturalistic observation</td>
<td>Returner needs, experience and outcomes of training—unstructured observation and field notes</td>
<td>All reasons included</td>
<td>Qualitative—Thematic analysis</td>
<td>58 doctors, 4 allied health professionals, 1 nurse, 1 other clinical professional</td>
<td>Opportunity sampling through training participation</td>
<td>UK</td>
<td>Not reported</td>
<td>Not applicable</td>
<td>Emergent themes relating to participants’ needs were psychosocial needs, peer support, and psychological concepts such as self-perception. Personal - psychosocial needs relating to their RTW, well-being and self-care, WLB, self-esteem, self-identity, confidence. Social - feeling valued, peer support, peer learning, shared experience and not feeling alone or socially isolated, accessing support, respect of peers. Organisational – senior colleague support</td>
</tr>
<tr>
<td>van Boxel et al (2020)</td>
<td>Cross-sectional survey</td>
<td>Confidence on RTW—de novo mixed methods survey</td>
<td>Parental leave—maternity</td>
<td>Mixed method—Descriptive statistics</td>
<td>146 paediatric doctors</td>
<td>Invitation email via deaneries/training programmes</td>
<td>UK</td>
<td>Not reported</td>
<td>Not reported</td>
<td>96% of returners reported a lack of confidence, with 36% requiring more than 3 months to return to pre-absence confidence levels. Personal - childcare, confidence, WLB and managing commitments, managing emotional stress. Organisational - supervisor support, keeping in touch/ unfamiliar workplace, work design and time</td>
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<td>Authors</td>
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<td>--------------------------------------------------</td>
</tr>
<tr>
<td>Walsh et al (2005)</td>
<td>Qualitative semi-structured interviews</td>
<td>Experience of maternity leave—semi-structured interviews</td>
<td>Parental leave—maternity</td>
<td>Qualitative—Thematic analysis</td>
<td>21 family medicine doctors</td>
<td>Invitation letter from the Postgraduate Programme Director</td>
<td>Canada</td>
<td>Not reported</td>
<td>78% response rate</td>
<td>Personal - high expectations, stress, childcare and breastfeeding, WLB, sleep and fatigue. Social - professional culture, guilt from absences and workload colleagues, colleague and peer support (reduced post-pregnancy without visible difference). Organisational - work design (long hours, unpredictable work demands), staffing management, organisational culture, physical strain, flexibility, facilities (breaks, privacy, fridges), keeping in touch (can improve perceived skills and peer support)</td>
</tr>
<tr>
<td>Finlayson et al (2013)</td>
<td>Between groups comparison</td>
<td>Characteristics and morbidity of fitness for duty referrals—historic patient data</td>
<td>Referred for fitness for duty</td>
<td>Quantitative—Descriptive statistics, t-tests or $\chi^2$, logistic regression</td>
<td>381 doctors</td>
<td>Recruited at fitness for duty evaluation (consent process not described)</td>
<td>US</td>
<td>70% male, 71% white, mean age 49</td>
<td>Not reported</td>
<td>70% of those referred were deemed fit to practice and not offered additional support. Personal - psychological support, behavioural guidance and training. Organisational - tailoring of support to individual</td>
</tr>
<tr>
<td>Isaksson et al (2012)</td>
<td>3 year follow-up intervention study</td>
<td>Emotional exhaustion—Maslach Burnout Inventory</td>
<td>Sick leave—severe distress</td>
<td>Quantitative—T-tests or chi-squared, linear regression</td>
<td>227 doctors (184 at 3-year follow-up)</td>
<td>Invitation on accessing intervention</td>
<td>Norway</td>
<td>Not described, but used in analyses</td>
<td>94% response rate, 19% attrition rate</td>
<td>Length of full-time sickness absence following a counselling intervention can predict reduced burnout 3 years after initial sickness. No optimum length was found so this should be personalised. Personal - fatigue, emotional exhaustion. Organisational - tailoring of support to individual</td>
</tr>
</tbody>
</table>

Table 2 Continued
<table>
<thead>
<tr>
<th>Authors</th>
<th>Study design</th>
<th>Variable/outcome measurement</th>
<th>Condition/absence details</th>
<th>Data analysis</th>
<th>Sample</th>
<th>Recruitment/sampling</th>
<th>Setting</th>
<th>Demographics</th>
<th>Response rate</th>
<th>Key findings—personal, social, organisational needs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kodama et al (2012) 49</td>
<td>Between groups comparison</td>
<td>Working practices—mandatory ‘National Survey of Physicians’</td>
<td>All reasons included</td>
<td>Quantitative—Descriptive statistics</td>
<td>86,459 doctors</td>
<td>Mandatory workforce survey distributed via workplaces</td>
<td>Japan</td>
<td>Not reported</td>
<td>90% response rate</td>
<td>The number of female doctors on leave is increasing faster than those returning. Personal - WLB and managing caregiver requirements. Organisational - flexibility of working practices, workload and staffing management</td>
</tr>
<tr>
<td>Rose et al (2013) 50</td>
<td>Between groups comparison</td>
<td>Substance misuse relapse and RTW—clinical records data</td>
<td>Sick leave—substance misuse</td>
<td>Quantitative—T-tests or χ²</td>
<td>780 doctors (56 emergency physicians, 724 non-emergency physicians)</td>
<td>Data from previous study, sampling not described</td>
<td>US</td>
<td>Reported by each group in full in the paper</td>
<td>Not reported</td>
<td>There is a higher rate of substance use disorders in emergency physicians, but comparable completion rates of support programmes including RTW (72%–84%). Personal - psychological health needs. Organisational - OH programmes, personalised for doctors</td>
</tr>
</tbody>
</table>

ANOVA, analysis of variance; GP, general practitioner; NHS, National Health Service; OH, occupational health; RTW, return to work; WLB, work-life balance.
Qualitative study quality (table 4) was overall high, with the number of ‘yes’ answers for the ten studies ranging from 7 to 10 (mean 8.3). Studies had clear aims, appropriate qualitative designs and data collection and analysis methods, while making ethical considerations, clear statements of findings and value of the research. The most common flaws were a lack of independent, blinded participant recruitment (n=6) and lack of consideration and reflexivity on the relationship between researchers and participants (n=4).

Twenty studies had risk of selection bias, including self-selecting samples and non-blinded recruitment. Fourteen studies had risk of recall bias, due to reliance on self-report retrospective data collection. Twelve studies had risk of measurement bias, using de novo surveys lacking validity and reliability, and qualitative methods lacking adequate description. Thirteen studies showed risk of analysis bias due to either descriptive analysis or insufficient description of analyses. Only six studies demonstrated reflexivity on the role of the researchers, particularly regarding their relationships with participants. Publication bias is unlikely in this sample as qualitative studies were high quality, exploratory studies did not yield positive or negative findings, and studies reported resources during absence and RTW as well as needs and barriers.

Extracted data were synthesised into categories of needs based on the research aims: personal needs; social needs; organisational needs (table 5). Additional findings emerged during data extraction, presented as: resources and recommendations. Needs identified are undoubtedly inter-related, so they have been synthesised based on their primary focus.

### Personal needs

All 24 studies presented findings relating to the personal needs of returning doctors, including WLB, emotional regulation, self-perception and identity, and engagement with the RTW process.

Seventeen studies found personal needs relating to WLB. Nine studies highlighted the need to consider career development, progression and drive in light of returning from absence, which can cause concern for returners. This need was more prominent in the findings of qualitative studies. Six studies found needs relating to childcare, with three highlighted infant-feeding specifically following parental leave. These needs were highlighted through cross-sectional surveys, with one qualitative study providing additional data on the experience of mothers in these areas. Financial needs were highlighted in four studies and were often relating to additional childcare concerns, changes in circumstances and possible return less than full time. Owing to the higher quality of qualitative studies compared with quantitative cross-sectional designs, needs relating to career development for all returners and childcare concerns following maternity leave were the most notable findings.

Fifteen studies highlighted emotional regulation needs for returners. Seven studies found that returners can experience stress, worry and fear, most notably in relation to executing their clinical duties including without supervision, and managing their changing circumstances. Four further studies referenced emotional exhaustion and fatigue, relating to both the cause of absence and the process of returning. Individual studies highlighted a link between emotional fatigue and sleep deprivation, particularly during parental leave, as well as feelings of...
Table 4  Critical Appraisal Skills Programme scores

<table>
<thead>
<tr>
<th>Authors</th>
<th>Aims stated</th>
<th>Appropriate methods</th>
<th>Appropriate design</th>
<th>Appropriate recruitment</th>
<th>Appropriate data collection</th>
<th>Role of researchers</th>
<th>Ethical issues covered</th>
<th>Rigorous data analysis</th>
<th>Clear findings stated</th>
<th>Are findings valuable?</th>
<th>Total ‘yes’ Responses (out of 10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brooks et al (2014)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>9</td>
</tr>
<tr>
<td>Doran et al (2014)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>9</td>
</tr>
<tr>
<td>Fox et al (2009)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>9</td>
</tr>
<tr>
<td>Grant et al (2019)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>9</td>
</tr>
<tr>
<td>Henderson et al (2012)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>10</td>
</tr>
<tr>
<td>Hertzberg et al (2016)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
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<td>Y</td>
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<tr>
<td>Nomura et al (2015)</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>7</td>
</tr>
<tr>
<td>Pérez-Álvarez et al (2019)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>7</td>
</tr>
<tr>
<td>Rizan et al (2019)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
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<td>N</td>
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<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
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<tr>
<td>Saunders et al (2020)</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>7</td>
</tr>
<tr>
<td>Walsh et al (2005)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>N</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
<td>8</td>
</tr>
</tbody>
</table>
powerlessness and uncertainty. Notably, in one quantitative and one qualitative study a break from clinical practice was seen to help with this emotional fatigue.11 44 The high quality of qualitative methodologies used and the use of the validated Maslach Burnout Inventory support the validity of these findings.

Needs relating to self-perception and identity were found in 16 studies.12 33 34 36 42 43 Most commonly in six studies this was self-efficacy (or confidence as a proxy term) for clinical procedures and managing clinical duties and personal lives.11 12 34 40 44 45 A further seven studies highlighted the role of identity in returning doctors’ needs, findings that personal and professional identities and the relation between the two can shift during absence and on return.31 33 34 37 38 41 44 Five of these studies reported that absence poses a threat to doctors’ identity as a caregiver, particularly during sick leave and experiencing the role of a patient.31 33 34 37 44 Self-stigma and negative self-views were found in four studies, manifested in feelings of failure and weakness based on taking an absence from work.31 34 36 39 Notably, three studies reported positive effects of absence and return in relation to broadened and strengthened identity, from both sick leave and career breaks.31 37 41 Needs regarding self-perception and identity were highlighted comprehensively by robust qualitative methods, suggesting reliable findings. However, quantitative findings focused specifically on self-efficacy using non-validated tools lacking reliability.

Engagement in the RTW process was referenced in six studies as important.29 33 34 36 44 46 This related to accessing accurate information, building awareness of the process and impact of RTW, and self-advocating in obtaining support. This finding was most prominent in cross-sectional survey designs, which were lower quality studies.

Social needs
Seventeen studies presented findings relating to social needs, including managing relationships, professional culture and stigma.

Relationships were found to be an important factor in 15 studies. Most notable were relationships with colleagues and peers, ranging from providing support and guidance on experiences such as parental leave, to team working and functioning at work.4 12 29 30 32 37 39 43 46 Eight of these studies found that negatives views on taking sick leave, negative attitudes towards the reasons for absence and even direct pressure were harmful to returners.29 33 37 45 46 Four studies highlighted similar findings in relation to the attitudes of family and friends, additionally raising the benefits of good social support.4 12 34 37 Seven studies highlighted that mentor or supervisor relationships were needed and could be highly beneficial for returners.4 33 39 43 46 Both qualitative and quantitative data support the needs around relationships.

Ten studies highlighted negative professional culture.29 33 36 38 43 46 Five studies found that negative views on sick leave and absence could be rooted in the culture of the medical profession, while another study highlighted the tough and competitive ethos that can be found in medicine.29 33 36 46 Four studies uncovered expectations relating to maintaining high performance, being seen to enjoy and not struggle being a doctor, and to not to be affected by RTW.33 36 38 46 It was suggested in two studies that professional culture can reduce help-seeking behaviour and create additional needs.33 36 These cultural considerations were highlighted in cross-sectional surveys and explored in more depth in qualitative studies of good quality.

Stigma was found in six studies, relating to seeing illness as a flaw, weakness or vulnerability.31 33 34 36 43 45 Studies showed that this stigma was visible across specialties, settings and organisations, and three studies suggested a negative impact on disclosure of personal circumstances. Other studies referenced unsupportive colleagues, for example, towards doctors returning from parental leave, however this could not be directly linked to stigma.4 45 46 This finding was explored in depth by good quality qualitative studies.
Organisational needs
Twenty-two studies presented findings relating to organisational or workplace needs, including flexibility and job control, work design, OH services and organisational culture.

Flexibility and job control was a prominent need for returners in 13 studies. This suggested that organisations and training programmes must be flexible to the individual needs of returners, with personalisation of support an important consideration. The flexibility and personalisation should be derived from the new circumstances of returners following absence, with examples of life stage and individual experience of illness. Returners required autonomy to make adaptations to job roles on RTW, as well as regaining control over their career development. Three studies included specific needs for workplace adaptations following RTW, relating to parental leave and sick leave. Job control was found to reduce the likelihood of taking sick leave in one study, while another found that job control could be developed from taking a career break. Needs around job control, work design, OH services and organisational resources found to support returners were closely tied to working hours, shift patterns and unpredictable work demands found in three studies. Returners’ needs to familiarise with new work design on return was found in four studies. The high-pressure environments of medicine and presence of risk featured in two studies, while the three further studies highlighted the importance of facilities particularly in relation to infant-feeding. One study found specialty-specific work design needs, in relation to primary care doctors working with secondary care services. Both qualitative and quantitative study designs highlighted this area of need.

OH services and their provision of support featured in nine studies. Access needs were highlighted in six studies which found that clear communication and information about support available and expectations of services was required. Four studies highlighted needs around confidentiality and case management from OH, suggesting specialist OH services for doctors. This need was highlighted in cross-sectional surveys and outlined in more depth through qualitative interviews of good quality.

Seven studies found needs around organisational culture. These unanimously found the need for supportive working environments, highlighting an organisation’s role in achieving this. Two studies highlighted that a team’s approach was influenced by organisational culture, particularly with regard to negative views of sick leave. Three studies used cross-sectional surveys and four used qualitative interviews.

Resources
Additional study findings highlighted positive resources that could be developed by or provided to returners from eight studies. Personal resources relating to increased empathy, self-awareness and insight into the doctor-patient relationship following sick leave were found in three studies. Positive engagement with the RTW process and increased awareness of this was found to be a resource by three studies, while individual studies found that training, career development and improved WLB could all be resources on RTW.

Social resources were highlighted, with five studies identifying resources of positive social support from colleagues and peers. The valuable resource of a mentor or supervisor, networks of friends, and a supportive partner were suggested by three studies. Organisational resources found to support returners were flexibility, paid leave, pre-existing job satisfaction, and a clear process of returning including keeping in touch experiences. Each featured in one study, while flexibility featured in three and was related specifically to a phased RTW. The ten studies that found resources used four cross-sectional surveys, five qualitative interview methods and one naturalistic observation with varied study quality.

Recommendations
Seventeen studies provided recommendations relating to returners’ needs and support. Broadly, five studies called for improved evidence, evaluation and understanding of reasons for absence and subsequent personal, social and organisational needs to guide improved support provision.

Five studies made clear recommendations to meet personal needs relating to self-efficacy and WLB, particularly childcare and infant-feeding. These included improved clinical information and training to improve self-efficacy of clinical skills, and improved facilities and flexibility to allow for childcare and infant-feeding needs.

Seven studies provided recommendations for social needs, with four calling for initiatives to reduce stigma around sick leave, particularly for mental health conditions. Four studies stated the clear need for designated supervisor or mentor support for returners to provide consistency and guidance.

Eleven studies suggested recommendations for organisations, most commonly five studies calling for clearer policies for RTW, including access to workplace risk assessments for mothers. Additionally, four studies stressed the importance of a tailored OH service, with three more outlining the value of clear and empathetic communication when doctors are on sick leave. Relating to work design, three studies...
DISCUSSION

Principal findings

This systematic review of doctors returning to work sought to identify personal, social and organisational needs, finding 11 prominent factors. Twenty-four studies were included, involving data from 92,692 doctors across 14 quantitative and 10 qualitative studies. All 24 studies identified personal needs for returners categorised into WLB, emotional regulation, self-perception and identity, and engagement with RTW. Seventeen studies highlighted social needs relating to professional culture, personal and professional relationships, and stigma towards illness. Organisational needs were found in 22 studies, categorised into flexibility and job control, work design (the nature of work), OH services and organisational culture. Resources emerging from experiencing RTW were highlighted, alongside practical recommendations based on study findings.

Findings apply to doctors as a homogenous group based on the limited evidence available, rather than the heterogeneous group this is in practice. General practice was the most common specialty identified, while hospital doctors were commonly grouped together, although there were no clear differences between specialties. Findings appeared applicable across all reasons for absence, aside for specific needs following maternity and sick leave. Doctors returning from maternity leave had increased needs relating to WLB and managing childcare, emotional regulation and support from peers and senior colleagues. Doctors returning from sick leave had increased needs relating to identity, self-perceptions, emotional regulation, stigma and OH support. These findings reflect the nature of the doctors’ absence and their changing circumstances. While certain needs will be applicable across many doctors, further specific needs relating to reason for absence, career stage and specialty may not yet have been identified. Findings should be applied with consideration of personal and local contexts as evidence remains preliminary. Importantly, preliminary evidence highlights resources or strengths that returning doctors can bring to patient care, possibly due to their experiences and changes in circumstances and perspective.

Strengths and weaknesses

While 20% of all studies from title and abstract screening onwards were reviewed by a second independent researcher with good inter-rater reliability, an increased proportion of second screening would improve reliability. Risk of bias assessment was robust and used appropriate tools, while independent reviewing and a piloted data extraction form aided synthesis. However, data extracted was not appropriate for meta-analysis and findings were derived through narrative synthesis which requires cautious interpretation. Doctors were group as one heterogeneous population and many relevant variables would not be considered, for example reason or length of absence and specialty training. Nonetheless, consensus during data synthesis facilitated presentation of emerging findings from a nascent literature base.

The limited extant literature meant that many included studies were not exclusively focused on needs during RTW and the exploratory nature of some studies provided broad rather than focused evidence. Additionally, all included studies originated from developed countries and healthcare systems and non-English language studies were excluded. Quantitative studies were low quality, with a lack of reliable self-report measures and objective data collection, limited comparison or follow-up data, and poor identification and testing of variables. Qualitative studies were high quality, presenting in depth data and relevant findings using well-described methodologies, analyses and reflexivity. Developing insight into the lived experience of doctors through robust qualitative methods should be highly valued.

Analyses demonstrated significant risks of biases throughout the reviewed studies, including qualitative methods. Most notable were selection biases through self-selecting participants or inappropriate, non-blinded recruitment methods. Retrospective studies raised the risk of recall bias, while measurement bias related to poor quantitative measures and some qualitative studies omitting reflexivity on the relationship between researcher and participants. Analysis bias may be due to the researcher’s non-blinded role in analyses, over-reliance on descriptive statistics and insufficient methodological detail in some studies.

Relation to other literature

This review builds on literature that has begun to identify returning doctors’ needs, including personal experiences of identity, emotions and self-efficacy, social needs regarding relationships, stigma and professional culture, and organisational needs including work design, culture, job control, flexibility and support services. Findings build on existing support and measures proposed, raising new considerations for supported RTW while addressing the dearth in existing evidence. Coherence between the review findings and current academic and non-academic literature suggests that the understanding of doctors’ needs are improving with added the depth and organisation.

Findings can be located within the wider RTW literature, allowing differentiation between needs faced by many workers on RTW, and needs faced particularly by doctors. Doctors may have increased personal needs relating to emotional regulation, self-efficacy and personal–professional identity. Social needs for doctors appear to have additional considerations relating to professional culture and attitudes of peers, while work design raised specific organisational needs. These
increased needs may relate to the vocational nature of medicine, the historical and comparatively well-defined professional culture, and the unique and life-changing nature of providing clinical care. These findings demonstrate the need to build on existing knowledge on RTW by developing evidence tailored to doctors.

Drawing on wider literature may help to both contextualise this review’s findings and guide further work in this area. The IGLOO (Individual, Group, Leader, Organisation, Overarching context) framework for integrated sustainable RTW, initially applied to return postmental ill health, could be applied to doctors returning to work to help guide the development of interventions and support (see table 6). This demonstrates that needs may be applicable across multiple reasons for absence while acknowledging the importance of individual experience.

**Implications**

The findings (tables 5 and 6) and implications of this review can be understood across the five levels of the IGLOO framework: the individual; group; leader; organisation and overarching context. Doctors taking absence and planning to return may benefit from being able to proactively consider their needs according to current evidence and this framework, in addition to OH services if required. Proactive consideration may empower doctors to considering what role their workplace and professional organisations should play and even advocate for their needs. At the group level, the role of colleagues, peers, friends and family in providing invaluable support has been reiterated and should guide people in these roles to be aware of the part they can play. For leaders in particular, the importance of a doctors’ relationship with a senior colleague, mentor or supervisor cannot be understated and is critical to a successful experience of RTW. At the organisational level, clarity on the roles and availability of support from human resources, OH services and professional networks within organisations must be given. Job design, the nature of work, and the management of staffing and workforce should also feature at this level. Additionally, workforce and organisational leaders can identify and target the specific needs that may be present in a population of returning doctors, implementing this into their practice and support provision. Finally, regarding the overarching context, the medical profession, medical leaders and professional bodies may reflect on the needs of returning doctors, considering the role of professional culture, stigma and professional support in individual experience.

Engagement with doctors’ experience of RTW may provide wider benefit for the medical community. Understanding and harnessing the lived experience of doctors’ illness may help doctors to become better, more empathetic clinicians. This principle could be translated through to medical education, from undergraduate medical training to continued professional development. The development of adequate support to facilitate WLB for returning doctors, including their career development needs, may help to reduce inequalities and disadvantage in the medical workforce. This may be true for gender imbalances in senior medical leadership based on gender bias linked to maternity leave. Indeed, the same principle could apply to stigma related to mental health conditions. Reducing this stigma may not only improve the experience of doctors who experience mental health conditions, but also their patients and colleagues who will share these experiences too. Finally, improving doctors’ experience and ability to RTW helps to secure the future and sustainability of the medical workforce, which is critical to public and population health. Fundamentally, improving support for doctors can improve the health, outcomes and experience of the patients that they serve.

**Future research**

The relationship between needs, reason and length of absence must be established to facilitate the development
of tailored interventions that can be assessed for feasibility and efficacy. Evidence and subsequent interventions must also consider doctors as a heterogeneous group, for example, focusing on certain specialties or settings. How doctors can consider or reflect on their needs should be prioritised, for example, through guidance, tools or needs assessment. Subsequently, designing new or adapting of existing interventions for doctors must be prioritised to foster practical changes, ensuring that research is aligning to practice around supporting doctors.

Striving for evidence-based practice is necessary to embed improved support for doctors returning to work which can facilitate a more sustainable medical workforce to care for patients. To achieve this significant ambition, the literature in this field must improve its methodological quality and management of bias. Objective measurement of these needs, alongside continued qualitative investigation, must be improved. More complex data analysis is required to understand relationships between variables and create evidence tailored to specific contexts, alongside significantly improved sampling methods that should require independence and blinding. Notably, comment, editorial articles and conference abstracts presenting opinion rather than data are common in relation to doctors’ health and RTW, while robust evidence is not. The medical profession must overcome its own discomfort, reticence or lack of prioritisation of methodologically rigorous research that investigates doctors’ needs and the determinants of successful RTW and sustainable working lives. This is an important step in building a sustainable medical workforce for the future.

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Contributors CA accepts full responsibility for the work and is responsible as guarantor. CA, TC, LT, RM, KT and SC contributed to the conception and planning of the review, alongside reporting and preparation of the manuscript. CA, RM and SC contributed to data collection. The corresponding author attests that all listed authors meet authorship criteria and that no others meeting the criteria have been included; the Corresponding Author has the right to grant on behalf of all authors and does grant on behalf of all authors, a worldwide licence to the Publishers and its licensees in perpetuity, in all forms, formats and media (whether known now or created in the future), to (1) publish, reproduce, distribute, display and store the Contribution, (2) translate the Contribution into other languages, create adaptations, reprints, include within collections and create summaries, extracts and/or, abstracts of the Contribution, (3) create any other derivative work(s) based on the Contribution, (4) to exploit all subsidiary rights in the Contribution, (5) the inclusion of electronic links from the Contribution to third party material where-ever it may be located; and, (6) licence any third party to do any or all of the above.

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