

**Sickness presenteeism at work: prevalence, costs and management**

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15       Sickness presenteeism at work: prevalence, costs and management  
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3 Sickness presenteeism at work: prevalence, costs and management  
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9 Abstract  
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11 Introduction: Presenteeism is defined as continuing to attend work during illness. As a  
12 growing health concern, awareness of the factors that encourage presenteeism and the risks of  
13 this behaviour is needed.  
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19 Sources of data: A narrative review of research obtained via several databases, including  
20 Medline and Psycinfo, was conducted.  
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24 Areas of agreement: A range of contextual and individual factors is associated with  
25 presenteeism. Workers in some sectors, such as healthcare, appear to be at greater risk.  
26 Presenteeism may facilitate rehabilitation and recovery but it can exacerbate existing health  
27 problems and increase the risk of subsequent illness and absence as well as impair  
28 workability.  
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37 Areas of controversy: The incidence of sickness presenteeism is rising, alongside reductions  
38 in absenteeism. The growing awareness of the costs of presenteeism, especially in safety-  
39 critical environments, suggests that it should be considered a risk-taking behaviour and  
40 carefully measured and managed.  
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47 Growing points and areas for developing research: Measuring presenteeism as well as  
48 absenteeism will provide more accurate information about employee health. Raising  
49 awareness of the risks of working while sick and the economic, moral, cultural and social  
50 pressures on employees to do so appears crucial. Systemic interventions to manage  
51 presenteeism based on research evidence are required.  
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59 Keywords: presenteeism; occupational health; rehabilitation; work-related stress  
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## Presenteeism

Presenteeism has been defined in several ways, but it most commonly refers to situations where people continue to work while unwell and not functioning to their full capacity<sup>1</sup>. Evidence is growing that the incidence and costs of presenteeism are higher than absenteeism<sup>2,3</sup>, but investigating it is considerably more challenging. Although most organisations have processes to measure and manage sickness absence<sup>4</sup>, presenteeism is an ‘invisible behaviour’ as recording the prevalence and costs would be time-consuming and costly. There is currently no ‘gold standard’ for measuring presenteeism. Some studies have used single items to identify the proportion of people who report having worked while sick in a specified timescale, whereas others have assessed their propensity to work during illness<sup>3,5</sup>. The Stanford Presenteeism Scale<sup>6</sup>, one of the most widely-used measures, takes a more functional approach by evaluating the extent to which health problems can impair workers’ cognitive, emotional and behavioural performance. Measures of presenteeism are essentially subjective, however, as they rely on employees’ evaluations of their fitness for work, attitudes to taking time off sick and perceptions of reduced productivity, whereas studies using objective evaluations of health status and functioning are rare. The challenges of identifying the direct and indirect costs of sickness presenteeism are also acknowledged.

### The prevalence of presenteeism

Attempts have been made to estimate the prevalence of presenteeism via self-report surveys. In 2010, the European Working Conditions Survey<sup>7</sup> reported that 40% of respondents (40,000 people in 34 countries) had worked while they were sick for at least one day in the previous twelve-month period. Presenteeism, defined as working during illness on at least two days during the last year, was reported by 36.3% of men and 40.4% of women.

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3 The prevalence ranged from 23% (in countries such as Italy, Portugal and Poland) to above  
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5 50% (in countries such as Montenegro, Malta and Denmark).  
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9 Information on the extent of sickness absence is more readily available than  
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11 presenteeism. In 2016, the UK Office for National Statistics (ONS)<sup>8</sup> estimated that 137.3  
12  
13 million working days were lost to sickness and injury, with the average yearly absence  
14  
15 estimated at 6.3 days per employee<sup>4</sup>. An annual survey of absence management conducted in  
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17 the UK by the Chartered Institute of Personnel and Development<sup>8</sup> (CIPD) indicated that sick  
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19 leave is higher in larger organisations, in the public sector and among manual workers<sup>4</sup>. The  
20  
21 most common reasons for short-term absence (classified as up to four-weeks) reported by  
22  
23 organisations who responded to this survey were minor illness (such as colds, flu and  
24  
25 migraine = 95%), musculoskeletal problems (such as back pain and repetitive strain injuries =  
26  
27 44%), recurring medical conditions (such as asthma and angina = 31%) stress (47%) and  
28  
29 mental health problems (such as depression and anxiety = 34%). Almost a quarter of  
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31 respondents (24%) indicated that non-genuine ill health was the most common cause of short-  
32  
33 term sickness absence in their organisation. Long-term absence (classified as four weeks or  
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35 more) was most commonly caused by stress (29%) acute medical conditions (23%), mental  
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37 ill-health (13%)<sup>8</sup>.  
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45 The overall level of sickness absence in the UK has declined since 2003<sup>8</sup>. This does  
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47 not mean that the population is becoming healthier, as there is evidence that people have  
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49 become more likely to work during illness. The CIPD survey discussed above <sup>4</sup> found that  
50  
51 around one-third of the organisations who participated reported an increase in sickness  
52  
53 presenteeism from the previous year. These organisations typically had longer average  
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55 working hours and were almost twice as likely to report a rise in mental health problems  
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57 among their staff. Organisations with higher rates of presenteeism also tended to have  
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3 increased absenteeism, suggesting that employees alternate both behaviours to manage  
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5 episodes of illness. This supports the findings of a recent meta-analysis that reported strong  
6  
7 positive correlations between absenteeism and presenteeism<sup>9</sup>. Clearly, the pattern of absence  
8  
9 and presence will differ according to health condition<sup>10</sup> and be influenced by a range of  
10  
11 organisational and individual factors. The antecedents of sickness presenteeism are reviewed  
12  
13 in the next section.  
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### 16 17 18 The causes of presenteeism 19 20

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22 Whether people continue to work during illness will be influenced by several factors  
23  
24 such as the type of disorder or injury, the degree of incapacitation, the extent to which they  
25  
26 feel able to discharge their duties, and their personal sick record<sup>3, 11</sup>. The health-related causes  
27  
28 of presenteeism could be categorised under four headings: acute illnesses (such as colds,  
29  
30 allergies and gastrointestinal problems), recurring complaints (such as allergies), chronic  
31  
32 conditions (such as arthritis, musculoskeletal disorders, common mental health problems and  
33  
34 insomnia) and lifestyle factors (such as physical inactivity, poor diet and smoking)<sup>3,11, 12, 13</sup>.  
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36 The most common reasons why people work while unwell, however, are similar to those that  
37  
38 lead to sickness absence: musculoskeletal disorders, gastrointestinal symptoms and common  
39  
40 mental health problems<sup>3, 12, 13</sup>. Studies typically report a dose-response gradient, in that the  
41  
42 number of health risk factors and the frequency of illness factors will increase the probability  
43  
44 that people will work while sick<sup>14</sup>. The duration of the health problems is also important, as  
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46 chronic disorders or disability (particularly mental health problems) may be considered a less  
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48 legitimate cause of sickness absence by patients and organisations<sup>9</sup>.  
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55 Several demographic and contextual determinants of presenteeism have also been  
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57 identified. Some studies have found a slightly higher prevalence among women<sup>7,15,16,17</sup>,  
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59 while others have found no gender differences<sup>11</sup>. While sickness absence may be more  
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3 legitimised in female-dominated workplaces, there is some evidence that when organisational  
4 and individual difference factors (such as working hours, responsibilities, job commitment  
5 and stress) are controlled, any gender differences become non-significant<sup>12</sup>. The reasons that  
6 underpin sickness presenteeism may differ, however, between men and women<sup>35</sup>. In terms of  
7 age, some studies have found that presenteeism is more common among young to middle-  
8 aged workers, presumably due to stronger attendance requirements by more junior staff<sup>12</sup>.  
9  
10 Nonetheless, there is also evidence that taking time off to recover from minor illness is  
11 considered less legitimate in people with more senior roles in organisations<sup>18</sup>. Research  
12 findings also suggest that people with line management responsibilities are more likely to  
13 work while sick as they feel they need to set an example to their staff<sup>18</sup>. Evidence for  
14 employment status as a risk factor for presenteeism is mixed, but there is some evidence that  
15 the prevalence is greater in professional and highly-skilled white-collar workers<sup>4,7</sup>.  
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32 The rates of sickness absence for self-employed people are consistently lower than  
33 those who work for others<sup>8</sup>. A recently-published study that followed a representative sample  
34 of 100,000 people working in Portugal for over four years found that self-employment was  
35 associated with an 85% lower risk of sick leave than waged workers<sup>19</sup>. Such findings could  
36 be interpreted in several ways. Healthy people may be more likely to be self-employed, those  
37 in poorer health may return to waged work (or drop out of employment entirely), or the  
38 increased autonomy associated with working for oneself may be genuinely salutogenic.  
39  
40 Nonetheless, there is evidence that self-employed workers are more likely to work while sick  
41 than those who are waged<sup>20</sup>. This may be due to lack of sick pay, feeling indispensable and  
42 being responsible for the livelihood of their staff. 'Self-employment' is a broad category,  
43 however, and embraces the growing number of people working in the 'gig' economy. Future  
44 research should examine sickness absence behaviours in this sector where work may be  
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3 flexible, but is typically precarious, competitive and low-paid. Under such conditions  
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5 working while sick may be particularly common and risky for health.  
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9 Other determinants of sickness presenteeism have been highlighted in the literature.  
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11 Economic factors, such as job insecurity, a lack of alternative employment options and  
12  
13 limited entitlement to sick pay, appear to be strong motivators to continue to work while sick  
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15 <sup>1,17</sup>. Under such conditions, there is some evidence that employees (especially those who are  
16  
17 older) may engage in presenteeism to ‘save up’ their paid sick leave for future illness that  
18  
19 may be more debilitating<sup>18</sup>. The rise in casual contracts may be at least partially responsible  
20  
21 for the diminishing levels of absenteeism and rising presenteeism highlighted above, as  
22  
23 people may feel obliged to work while sick if they have no other source of income<sup>21</sup>. This  
24  
25 argument is supported by evidence that sickness absence rates increase and sickness  
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27 presenteeism decreases when individuals move from insecure to secure employment where  
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29 entitlement to paid sick leave is more likely<sup>22</sup>.  
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36 Specific working conditions have also been linked with presenteeism. Robust  
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38 attendance management policies that operate trigger-point systems (where employees may  
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40 lose pay, be subjected to disciplinary action, or even dismissed after a threshold level of  
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42 absence is reached) are common causes of working during sickness, especially for people  
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44 with chronic conditions<sup>23,17</sup>. Organisations frequently use absence as a key performance  
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46 indicator<sup>4</sup> which can discourage people from taking sick leave in order to enhance their  
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48 promotion prospects and increase the likelihood of continued employment. Features of  
49  
50 work, such as high demands, heavy workloads, time pressure, shift-work and long working  
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52 hours, are also key predictors of presenteeism <sup>24,25,17</sup>. People with low job control,  
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54 particularly those who are less able to modify their work and delegate to others, also typically  
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56 report working while sick more frequently<sup>11</sup>.  
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3           What has been termed ‘individual boundarylessness’ (or difficulty saying ‘no’ to  
4 requests from others) can increase the likelihood of working while sick<sup>18</sup>. It is plausible that  
5 other individual difference factors, such as conscientiousness, may also discourage people  
6 from taking time off sick but little research has yet been conducted. Considerably more  
7 evidence has been found for the influence of the social environment at work in shaping sick  
8 leave behaviours. Cooperation, loyalty and mutual respect among colleagues can encourage  
9 people to continue to attend work while unwell<sup>18</sup>, but other studies have found that supportive  
10 relationships at work can discourage presenteeism<sup>17</sup>. Workplace cultures where managers and  
11 colleagues role-model healthy sickness behaviours and provide adequate cover may offer  
12 reassurance that taking sick leave is the most appropriate action<sup>18</sup>.  
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27           Positive orientations towards work, such as intrinsic motivation, organisational  
28 commitment and feelings of fulfilment and satisfaction, can encourage sickness  
29 presenteeism<sup>17</sup>. Feelings of self-efficacy have also been identified as an important predictor  
30 of continuing to attend work during periods of ill health in people with chronic illness<sup>25</sup>. A  
31 recent study of more than 6,000 academic employees in UK universities found that  
32 engagement (comprising vigour and dedication to work) was one of the strongest predictors  
33 of working while sick during the previous year (along with work demands and lack of  
34 support)<sup>25</sup>. Job satisfaction is beneficial for health and can enhance recovery processes, but  
35 the long-term risks of over-commitment and a reluctance to disengage from work have also  
36 been identified<sup>26</sup>. This suggests that people who engage in presenteeism may have short-term  
37 health benefits, but their wellbeing may deteriorate over time.  
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#### 54 Presenteeism in healthcare professionals

57           Although there is evidence that sickness presenteeism is rising in general, it is  
58 particularly common among so-called ‘helping’ professionals. Healthcare workers, more  
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3 specifically, have many of the recognised risk factors for presenteeism discussed above: the  
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5 work is demanding, jobs can be highly specialised, working hours are often long and  
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7 antisocial, and employees are at high risk of stress and burnout<sup>1,3,27</sup>. Moreover, healthcare  
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9 professionals typically have a strong sense of duty and moral obligation for the welfare of  
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11 others that can increase the pressure to attend work<sup>16</sup>, especially under current conditions  
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13 where staffing levels are low and care is rationed<sup>28</sup>.  
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18 The prevalence and costs of presenteeism have been examined in different healthcare  
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20 settings such as nursing, midwifery, care work, and pharmacy<sup>16,28,29</sup>. There is evidence that  
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22 physicians are particularly likely to work while sick, with recent NHS statistics showing that  
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24 doctors take a third fewer sick days than other healthcare workers<sup>30</sup>. Research conducted in  
25  
26 several countries has examined the rates of presenteeism among doctors and the antecedents  
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28 and consequences of such behaviour. Studies in the UK during the 1990s highlighted the  
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30 propensity of working while sick in physicians<sup>31,32</sup>. More recently, a survey of 1,806 senior  
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32 practitioners working in New Zealand's public health system found that nearly nine out of ten  
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34 participants (88%) had attended work while being too sick to meet their usual standards of  
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36 performance over the previous two-year period<sup>33</sup>. Three-quarters of the sample disclosed that  
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38 they had worked while experiencing infectious illness. A recent study of 536 US clinicians  
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40 also found that more than eight out of ten (83%) had worked while they were unwell<sup>34</sup>.  
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42 More than half indicated that they would continue to attend work despite showing signs of  
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44 potentially infectious disease, such as respiratory symptoms and diarrhoea, although most  
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46 (95%) recognised that this put patients at risk. The risk that working while unwell can pose to  
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48 others, especially in safety-critical roles, is discussed further below.  
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56 Research findings indicate that healthcare professionals engage in presenteeism for  
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58 several reasons. Feelings of duty and commitment to patients appear to be particularly  
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3 important, but several other factors have been cited such as lack of cover, concerns about  
4 patients' continuity of care, fear of letting colleagues down and losing their respect, and  
5 pressure to portray a 'healthy' image<sup>34,35</sup>. These studies indicate that strong professional and  
6 cultural norms of altruism and even self-sacrifice are commonplace in healthcare and taking  
7 sick leave is often considered a sign of weakness. Doctors, in particular, may resist taking on  
8 a patient role and self-treatment is common, both of which can encourage working while sick  
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be of particular value.

#### The impact of presenteeism – individual health outcomes

It is clear that presenteeism is not necessarily damaging and working while not fully fit can be therapeutic. The companionship and self-esteem that comes from purposeful activity can aid recovery, provide distraction from minor symptoms, and encourage people to reject the sick role. A study of over 2,000 workers with musculoskeletal disorders who were referred to a functional restoration programme support this argument, as those who continued to attend work were more likely to complete the programme, return to work to full-duty or full-time, and to remain in work one year after treatment<sup>36</sup>. The extent to which working conditions, such as duties and working hours, can be adjusted to meet employees' needs is a key factor in determining whether presenteeism facilitates or impairs recovery<sup>13</sup>. Different health complaints result in different limitations that, in turn, will require different adjustments. For example, musculoskeletal problems can constrain physical functioning and

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3 depression can engender difficulties with time management, whereas both complaints can  
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5 impair cognitive and interpersonal skills<sup>37</sup>.  
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9 Although working while sick can facilitate recovery, evidence for its potentially  
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11 damaging effects for the wellbeing of employees and others is growing. Several high-quality  
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13 prospective studies and a recent systematic review concluded that presenteeism increases the  
14  
15 risk of future health problems and long-term sickness absence<sup>38</sup>. A cohort study of 1,831  
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17 Japanese employees found that sickness presenteeism measured at baseline was associated  
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19 with depression and absence for mental health problems a year later, after controlling for age  
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21 and gender<sup>39</sup>. Moreover, a cohort of 5,071 male civil servants from the Whitehall II study<sup>40</sup>  
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23 were subjected to baseline screening of health status and coronary risk factors and their  
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25 sickness absence records were analysed over the following three years. Results showed that  
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27 ‘unhealthy’ people that took no sick leave during the follow-up period had double the risk of  
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29 serious coronary events of unhealthy employees whose sickness absence was moderate.  
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32 There is evidence that even minor illnesses can eventually become serious and lead to  
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34 extended absenteeism if ignored<sup>41</sup>. Chronic work-related stress and emotional exhaustion  
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36 have also been positively associated with working while sick<sup>17</sup>. Over time, stress and burnout  
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38 can also increase the risk of many health problems, such as coronary heart disease,  
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40 hypertension and depression, and down-grade the immune system<sup>42</sup>.  
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49 The impact of presenteeism on others

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52 Many studies have highlighted the negative effects of working while sick on  
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54 productivity at work<sup>1,6,1</sup>; this is a particular risk for employees with comorbid physical and  
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56 mental health complaints<sup>37</sup>. The risks of presenteeism for the health and safety of other  
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58 people have also been recognised. Attending work when experiencing contagious illness  
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3 (known as contagious presenteeism) is a recognised public health hazard that is likely to be  
4 particularly harmful when interacting with vulnerable people<sup>43</sup>. Presenteeism also has more  
5 indirect risks for the wellbeing of other people. Employees may be required to put more effort  
6 into their work to accommodate the compromised performance of sick colleagues, thereby  
7 increasing their own work demands and associated threats to health as well as potentially  
8 reducing their ability to take sick leave. More research is needed into the systemic influences  
9 and effects on sickness absence behaviours in organisations that can extend the knowledge  
10 gained about individual factors.  
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22 Most studies that have considered the implications of presenteeism for others have  
23 been conducted in healthcare environments. There is evidence that working while sick can  
24 lead to emotional exhaustion that can encourage cynical and depersonalising attitudes  
25 towards patients<sup>27</sup>, with potentially serious consequences. For example, analysis of data from  
26 178 matched pairs of physicians and hospitalised patients found that doctors'  
27 depersonalisation resulted in lower patient satisfaction and longer post discharge recovery  
28 time<sup>44</sup>. Presenteeism has also been associated with an increased risk of errors and accidents in  
29 healthcare contexts<sup>45</sup>. A study of UK pharmacists found that they were more likely to  
30 prescribe the wrong medication or dosage when they were unwell<sup>29</sup>. Illness can impair job  
31 functioning, as more cognitive effort is needed to meet the required standards while  
32 simultaneously managing the distracting symptoms of illness. The capacity to monitor and  
33 respond promptly to environmental demands is also diminished during sickness, encouraging  
34 people to rely more heavily on routine and increasing the risk of errors and lapses of  
35 judgement. Moreover, fatigue (a symptom or outcome of many health conditions) can impair  
36 perception, judgement and motor skills and is a major cause of accidents and 'near misses' in  
37 safety critical work such as aviation<sup>46</sup>. These findings highlight the potentially serious  
38 implications of working while sick for the wellbeing and safety of others but, as they  
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3 typically rely on subjective reports of presenteeism and health and safety performance, more  
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5 objective assessments are required to identify the risks. Research with longitudinal designs is  
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7 also needed to determine the consequences of presenteeism for the health and safety of others  
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9 over time. Investigating presenteeism in safety-critical workers is challenging, however, as  
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11 the need to respect participant anonymity and confidentiality is balanced by concerns for  
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13 public safety. Taking sick leave when unwell is also a strict requirement in some safety-  
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15 critical jobs, such as in aviation and offshore work, so identifying the ‘true’ prevalence of  
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17 presenteeism in such work and any ill effects may prove challenging.  
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## 22 23 Managing presenteeism

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26 Although presenteeism can be beneficial, this article has highlighted its potential  
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28 negative effects - especially for people whose work is safety critical. Most organisations are  
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30 taking steps to reduce absenteeism<sup>4</sup> but accomplishing this without increasing damaging  
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32 presenteeism will not be easy. As discussed above, people work while sick for many  
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34 economic, cultural, moral and social reasons that may be largely unrelated to their actual  
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36 health status and functional limitations. These risk factors will interact; for example, an  
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38 employee who is overloaded at work and whose job is insecure may be more likely to work  
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40 during illness if they have a poor sick record. Moreover, healthcare professionals may be  
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42 more likely to engage in presenteeism if their unit is short-staffed, they are deeply committed  
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44 to the wellbeing of their patients and their line manager is reluctant to take time off sick when  
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46 required.  
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52 People commonly find it difficult to decide whether sick leave is justified unless they  
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54 are given explicit guidance from professionals: i.e. ‘told’ to either stay home or go to work.  
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56 Having a medical diagnosis is likely to increase the perceived legitimacy of taking time off  
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58 sick. A study that interviewed 30 people who had been absent for musculoskeletal complaints  
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3 found that those with a specific medical diagnosis (such as a fracture) felt that their  
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5 absenteeism was justified, whereas those with unidentifiable disorders (such as low back  
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7 pain) found the decision to take sick leave more challenging<sup>47</sup>. Without clear guidelines  
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9 some employees may ‘play it safe’ and absent themselves whereas others with a similar  
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11 condition will continue to work, although their long-term health and the safety of others may  
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13 be compromised. It is nonetheless challenging for medical professionals to establish with any  
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15 certainty when, or to what extent, work will facilitate or hinder recovery from an illness,  
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17 injury or a long-term condition for any individual worker. Indeed, research findings show that  
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19 doctors themselves frequently work while sick because they lack clear guidelines from their  
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21 employers on when they should take sick leave<sup>33</sup>. ‘Visibility’ of illness seems an important  
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23 criterion for healthcare staff, as the study found that doctors often feel obliged to ‘present’  
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25 themselves at work to show others that they are genuinely ill before going off sick. Insight  
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27 was also provided by the study into the perceived legitimacy of different complaints as a  
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29 reason for doctors to take sick leave. Findings showed that fatigue, even if extreme, would  
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31 not be considered legitimate, although its potentially serious effects on job performance  
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33 (highlighted above) were acknowledged.  
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40 Multi-level, systemic approaches to managing presenteeism are required. Such  
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42 initiatives should encompass primary prevention, where risks factors are identified and  
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44 wherever possible eliminated at source, as well as secondary or individual-level  
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46 interventions. An annual survey of UK human resource professionals discussed earlier in this  
47  
48 article shows that many organisations see presenteeism as a growing cause for concern, as the  
49  
50 proportion of participating organisations that take preventative action rose from 31% in 2015  
51  
52 to 48% in 2016<sup>4</sup>. Nonetheless, respondents to the survey acknowledged that operational  
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54 demands frequently took precedence over the health and wellbeing of their employees and  
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56 the overall level of work-related stress (a key predictor of presenteeism) reported remained  
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3 high. It is crucial to encourage organisations to take a long-term view, where fears about the  
4 immediate costs of sickness absence are balanced by a recognition of the risks of  
5 presenteeism for the future health and functioning of employees. Undertaking a critical  
6 review of sickness management policies to ensure that staff are not penalised for taking sick  
7 leave should prove effective. Establishing cultural norms that encourage workers to take  
8 sufficient time off sick to recover also seems crucial. The behaviour of line managers is a key  
9 predictor of the sickness culture in organisations. Encouraging supervisors to help employees  
10 keep work in perspective and act as role models for appropriate and 'healthy' sickness  
11 behaviour is therefore likely to be particularly effective<sup>3,48</sup>.

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24 Staff wellbeing surveys are other primary tools that can help organisations record  
25 trends in health complaints and associated attendance behaviours. As highlighted in this  
26 article, relying on sickness absence statistics to assess health status is misleading, so  
27 including a measure of sickness presenteeism will provide a more accurate indicator.  
28  
29 Incorporating measures of health-related productivity loss, such as the Stanford Presenteeism  
30 Scale<sup>6</sup>, and cross-referencing these findings with health and safety records would also  
31 communicate the risks of working while sick. This scale could be supplemented by open-  
32 ended questions that seek to identify the reasons why people work while sick. A preventative  
33 approach should also identify the structural factors that can underpin presenteeism discussed  
34 above, such as long working hours, high demands, low support and lack of sickness cover,  
35 using valid risk assessment procedures such as the UK Management Standards approach<sup>25,49</sup>.

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48 There is evidence that providing opportunities for flexible working may reduce  
49 presenteeism, especially for people with long-term conditions<sup>50</sup>. The findings of a nested  
50 study of employees with rheumatoid arthritis support this view, as those who could self-  
51 schedule their working hours reported lower presenteeism and less activity impairment<sup>51</sup>.  
52 Flexible working arrangements enable an increasing number of people to work from home



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3 using mobile technologies. Employees who ‘e-work’ tend to have lower levels of sickness  
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5 absence<sup>52</sup>, presumably because they are better able to pace themselves and accommodate the  
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7 limitations of any symptoms they may experience. Nonetheless, there is some evidence that  
8  
9 technology can increase rather than reduce sickness presenteeism by encouraging employees  
10  
11 to be ‘always on’. Technology can enable people to continue to work at home (or even when  
12  
13 hospitalised) despite being formally signed off sick; this is a particular risk when workloads  
14  
15 are high, support and staffing levels are low, and employees are deeply involved in their work  
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17 and miss the intellectual stimulation it provides<sup>53</sup>. Organisations may overlook or even  
18  
19 implicitly encourage such behaviour, but it is likely to delay recovery and may even breach  
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21 the employer’s duty of care.  
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27 Interventions are particularly important in healthcare organisations where working  
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29 during sickness may satisfy short-term operational imperatives but could have long-term risks  
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31 for staff and patients. In such environments, it is particularly important to reframe taking  
32  
33 legitimate sick leave as responsible and healthy behaviour and presenteeism as a potential  
34  
35 public health risk. Of some concern are the findings of a recent study of healthcare workers in  
36  
37 Croatia showing that staff in organisations with a stronger safety culture were more, rather  
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39 than less, likely to work while sick<sup>54</sup>. These findings suggest that safety culture may over-ride  
40  
41 the self-care of health professionals which will actually compromise rather than improve  
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43 patient safety.  
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49 Occupational health physicians have a key role to play in providing guidance to  
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51 organisations and employees on what constitutes ‘fitness for work’ and communicating the  
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53 risks of presenteeism. They can also help employers introduce procedures to identify whether  
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55 continuing to work is likely to enhance or impair recovery and how reasonable adjustments  
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57 could be made. Working while not fully recovered could be part of a negotiated return-to-  
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59 work plan that may involve part-time or flexible arrangements, or tasks that are less  
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3 demanding. Occupational health professionals could also help organisations reduce some of  
4 the risks for absenteeism and presenteeism by introducing secondary-level interventions  
5 aiming to improve the general health and fitness of employees via wellness programmes and  
6 self-care guides. As stress has been associated with presenteeism, employee assistance  
7 programmes and multi-level stress management initiatives are also likely to be effective.  
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12 Presenteeism is not a new phenomenon but compared to absenteeism it has been little  
13 studied. Knowledge of the factors that encourage people to work while sick and the  
14 implications for employees, organisations and members of the public is growing. The  
15 introduction of evidence-informed, systemic interventions to reduce damaging presenteeism,  
16 especially in safety-critical environments, is therefore crucial. Physicians have a key role to  
17 play in building more healthy sickness absence cultures in organisations, both for their  
18 personal wellbeing and for the health and safety of others.  
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Sickness presenteeism at work: ~~prevalence, costs and implications: the costs and challenges~~

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For Peer Review

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10 Sickness presenteeism at work: ~~prevalence, costs and implications: the costs and challenges~~

11  
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15 Abstract

16  
17 Introduction: Presenteeism is defined as continuing to attend work while ill. As a growing  
18 public health concern, awareness of the factors that encourage presenteeism and the risks of  
19 this behaviour is required.  
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21  
22 Sources of data: A ~~narrative review was conducted based on a search was conducted~~ of  
23 several databases, including Medline and Psycinfo.  
24

25  
26 Areas of agreement: ~~A range of contextual and individual factors has been associated with~~  
27 ~~presenteeism.~~ Under some conditions presenteeism may ~~enhance-facilitate~~ rehabilitation and  
28 recovery, but it can exacerbate existing health problems ~~and,~~ increase the risk of subsequent  
29 illness and absence, ~~and threaten the wellbeing of others.~~ Presenteeism is particularly  
30 common among healthcare professionals and has the potential to threaten public health and  
31 safety.  
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37 Areas of controversy: The incidence of presenteeism ~~is appears to be~~ rising alongside  
38 reductions in absenteeism. ~~It is a particular risk factor for healthcare professionals.~~ The  
39 growing awareness of the costs of presenteeism, especially in safety-critical environments  
40 ~~such as healthcare,~~ suggests that it should be perceived as a potential risk-taking behaviour  
41 that needs to be measured and managed.  
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46 Growing points and areas for developing research: ~~Measuring sickness presenteeism as well~~  
47 ~~as absenteeism will provide more accurate information about employee health.~~ It is important  
48 to increase awareness of the risks of working while sick and the economic, moral, cultural  
49 and social pressures on employees to do so. Highlighting the ~~wide-ranging~~ costs of  
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10 presenteeism will strengthen the case for recognising and managing such behaviour.

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12 ~~Occupational health professionals have a key role to play in this process. How presenteeism~~  
13 ~~can be managed effectively is a key priority.~~

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15  
16 Keywords: presenteeism; occupational health; rehabilitation; work-related stress

## 17 18 19 20 21 Presenteeism

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24 Presenteeism has been defined in several ways, but it most commonly refers to  
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26 situations where people continue to work while unwell and not functioning to their full  
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28 capacity<sup>1</sup>. Evidence is growing that the incidence and costs of presenteeism are considerably  
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30 higher than absenteeism<sup>2,3</sup>, but investigating it systematically is more challenging. Although  
31  
32 most organisations have attendance management policies and processes to measure and  
33  
34 manage sickness absence<sup>4</sup>, ~~there are several reasons why employees may be reluctant to~~  
35  
36 ~~disclose that they are working while sick and recording such behaviour~~ presenteeism is likely  
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38 to be time-consuming and costly as employers would be required to record the number of  
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40 sickness presence days and/or a propensity for their staff to work while sick. Attempts have  
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42 been made to estimate the prevalence of presenteeism in different countries via self-report  
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44 surveys. There is currently no ‘gold standard’ for measuring presenteeism. Some studies have  
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46 used single items to identify the proportion of people who report having worked while sick in  
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48 a specified timescale, whereas others have assessed workers’ tendencies to work during  
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50 illness<sup>3,5</sup>. The Stanford Presenteeism Scale<sup>6</sup>, one of the most widely-used measures, takes a  
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52 more functional approach by evaluating the extent to which health problems can impair  
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54 workers’ cognitive, emotional and behavioural performance at work. Measures of  
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56 presenteeism are essentially subjective, as they rely on employees’ personal evaluations of  
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10 their fitness for work, attitudes to taking time off sick and perceptions of reduced  
11 productivity, whereas studies using objective evaluations of health status and functioning are  
12 rare.

### 16 The prevalence of presenteeism

19 Attempts have been made to estimate the prevalence of presenteeism via self-report  
20 surveys. In 2010, the European Working Conditions Survey<sup>7</sup> found that 40% of respondents  
21 (40,000 people in 34 countries) had worked while they were sick for at least one day in the  
22 previous twelve-month period. Presenteeism, classified as working during illness on at least  
23 two days during the last year, was reported by 36.3% of men and 40.4% of women. The  
24 prevalence of presenteeism ranged from 23% (in countries such as Italy, Portugal and Poland)  
25 to above 50% (in countries such as Montenegro, Malta and Denmark). -Information on the  
26 extent of sickness absence is more readily available. In 2016, the UK Office for National  
27 Statistics (ONS)<sup>86</sup> estimated that 137.3 million working days were lost to sickness and injury  
28 (4.3 days per worker) and the average level of absence has been estimated at 6.3 days per  
29 employee<sup>4</sup>. An annual survey of absence management conducted in the UK<sup>4</sup> by the  
30 Chartered Institute of Personnel and Development<sup>8</sup> indicated that levels of sick leave are  
31 higher in larger organisations, in the public sector and among manual workers<sup>4</sup>. In this  
32 survey, the most common reasons for short-term absence (classified as up to four-weeks)  
33 reported by organisations for all employees are were minor illness (such as colds, flu and  
34 migraine = 95%), musculoskeletal problems (such as back pain and repetitive strain injuries =  
35 44%), recurring medical conditions (such as asthma and angina = 31%) stress stress (47%)  
36 and mental health problems (such as depression and anxiety = 34%). Almost a quarter of  
37 respondents (24%) reported that non-genuine ill health was the most common cause of  
38 sickness absence in their organisation. Long-term absence (classified as four weeks or more)

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10 is most commonly caused by stress (29%) acute medical conditions (23%), ~~stress and~~ mental  
11 ill-health (13%).

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14 The overall level of sickness absence in the UK has declined since 2003<sup>86</sup>. This does  
15 not mean that the population is becoming healthier; there is evidence that people have  
16 become more likely to work during illness. The findings of ~~an annual survey of organisations~~  
17 ~~in the UK conducted the survey discussed above by the Chartered Institute of Personnel and~~  
18 ~~Development~~<sup>44</sup> ~~found reported~~ that around one-third reported an increase in sickness  
19 presenteeism from the previous year. These organisations tended to have longer working  
20 hours and were almost twice as likely to report a rise in mental health problems among their  
21 staff. Organisations with higher rates of presenteeism also tended to report increased  
22 absenteeism, suggesting that employees alternate both behaviours to manage episodes of  
23 illness. This supports the findings of a recent meta-analysis that reported strong positive  
24 correlations between absenteeism and presenteeism<sup>9</sup>. The pattern of absence and presence  
25 will differ according to health condition<sup>10</sup>, but also depend on a range of organisational and  
26 individual factors.

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40 The causes of presenteeism

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43 Whether people engage in presenteeism will ~~depend on a wide range~~ be influenced by  
44 several ~~of~~ factors such as the type of disorder or injury, the degree of incapacitation, and the  
45 extent to which they feel able to discharge their duties<sup>11</sup>. The health-related causes of  
46 presenteeism ~~have been~~ could be categorised under four headings: acute illnesses (such as  
47 colds, allergies and gastrointestinal problems), recurring complaints (such as allergies),  
48 chronic conditions (such as arthritis, musculoskeletal disorders, common mental health  
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10 problems and insomnia) and lifestyle factors (such as physical inactivity, poor diet and  
11 smoking)<sup>3,11,12,13</sup>. The most common reasons why people work while unwell, however, are  
12 similar to those that lead to sickness absence: musculoskeletal disorders, gastrointestinal  
13 symptoms and common mental health problems <sup>3,12,13</sup>. Studies typically report a dose-  
14 response gradient, in that the number of health risk factors and the frequency of illness factors  
15 increase the probability that people will work while sick<sup>14</sup>.  
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21 Demographic and contextual determinants of presenteeism have also been identified.  
22 Some studies have found a slightly higher prevalence among women<sup>7,15,16,17</sup>, while others  
23 have found no gender differences<sup>11</sup>. There is evidence, ~~h~~However, that when organisational  
24 and individual difference factors (such as working hours, responsibilities, job commitment  
25 and stress) are controlled, any gender differences become non-significant<sup>12</sup>. Evidence for  
26 employment status and qualifications as risk factors for presenteeism is mixed, but some  
27 studies have found that the prevalence is greater in professional and highly-skilled white-  
28 collar workers<sup>4,7</sup>. Research findings also suggest that people with line management  
29 responsibilities are more likely to work while sick as they feel they need to set an example to  
30 their staff<sup>18</sup>.  
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40 The rates of sickness absence for people who are self-employed are consistently lower  
41 than those who are employed by others<sup>8</sup>. A recently-published study that followed a  
42 representative sample of 100,000 people working in Portugal for over four years found that  
43 self-employed was associated with an 85% lower risk of sick leave than waged workers<sup>19</sup>.  
44 These findings could be interpreted in several ways. Healthy people may be more likely to be  
45 self-employed, those in poorer health may return to waged work (or drop out of employment  
46 entirely), or the increased autonomy associated with working for yourself may be genuinely  
47 salutogenic. Nonetheless, there is evidence that self-employed workers are more likely to  
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10 work while sick than those who are waged<sup>20</sup>. This may be due to several factors, such as lack  
11 of sick pay, as well as feeling indispensable and responsible for the livelihood of their staff.  
12 The category 'self-employment' is broad, however, and increasingly includes those working  
13 within the 'gig' economy. Future research should examine presenteeism in this sector where  
14 work is flexible, but typically precarious, competitive and low-paid.

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20 Other determinants of presenteeism have been highlighted. Economic factors, such as  
21 job insecurity, a lack of alternative employment options and limited entitlement to sick pay,  
22 encourage people to work while sick<sup>1,17</sup>. The rise in casual contracts may be at least partially  
23 responsible for the diminishing levels of absenteeism and rising presenteeism highlighted  
24 above, as people may have little alternative but to work while sick if they have no alternative  
25 source of income<sup>21</sup>. This argument is supported by evidence that sickness absence rates  
26 increase and presenteeism decreases when individuals move from insecure to secure  
27 employment where they are more likely to be entitled to paid sick leave<sup>22</sup>.

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35 Specific working conditions have also been linked with presenteeism. Robust  
36 attendance management policies that operate trigger-point systems (where employees may  
37 lose pay, be subjected to disciplinary action, or even dismissed after a threshold level of  
38 absence is reached) are one of the most common cause of working during sickness, especially  
39 for people with long-term conditions<sup>23,17</sup>. Organisations frequently use absence as a key  
40 performance indicator<sup>4</sup> which can discourage people from taking sick leave to enhance their  
41 promotion prospects and ensure continued employment. High demands, heavy workloads,  
42 time pressure and long working hours are also key predictors of presenteeism<sup>24,25,17</sup>. The  
43 quality of working relationships and the availability of support also influences attitudes  
44 towards taking sick leave. Cooperation, loyalty and mutual respect among colleagues can  
45 encourage people to attend work while unwell<sup>18</sup>, but other studies have found that workplace  
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10 support might discourage presenteeism<sup>17</sup>. Workplace cultures that role-model healthy  
11 sickness behaviours and provide adequate support may provide reassurance that taking sick  
12 leave is the most appropriate action.

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16 Positive orientations towards work, such as intrinsic motivation, organisational  
17 commitment and feelings of fulfilment and satisfaction, have also been found to encourage  
18 presenteeism<sup>17</sup>. A study of more than 6,000 academic employees in UK universities found  
19 that engagement (comprising vigour and dedication to work) was one of the key predictors of  
20 working while sick over the previous year (along with work demands and lack of support)<sup>25</sup>.  
21 Enjoyment of work is beneficial for health and can enhance recovery processes, but the long-  
22 term risks of over-commitment and a reluctance to disengage from work have also been  
23 identified<sup>26</sup>.

### 24 Presenteeism in healthcare professionals

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36 Presenteeism is particularly common among so-called ‘helping’ professionals who  
37 meet the primary needs of others on a daily basis. Healthcare workers are particularly likely  
38 to work while sick<sup>16,24</sup>. Such work has several recognised risk factors for presenteeism  
39 discussed above: the work is demanding, jobs can be highly specialised, working hours are  
40 often long and antisocial and employees are at high risk of stress and burnout<sup>1,3,24,7</sup>. Moreover,  
41 healthcare professionals typically have a strong sense of duty and moral obligation for the  
42 welfare of others that can increase the pressure to attend work<sup>16</sup>, especially where staffing  
43 levels are low and care is rationed<sup>28</sup>.

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51 The prevalence and costs of presenteeism has been examined in different healthcare  
52 settings such as nursing, midwifery, care work and pharmacy<sup>16,28,29</sup>. ~~The prevalence of~~

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10 ~~sickness presenteeism among p~~Physicians ~~is-are~~ particularly ~~high~~likely to work while sick,  
11 ~~with estimates between 80% and 90%~~<sup>20</sup>. ~~Recent~~with recent NHS statistics ~~indicat~~indicatinged  
12 that doctors take a third fewer sick days than other healthcare workers<sup>30</sup>. Research conducted  
13 in several countries has examined the rates of presenteeism among doctors ~~in particular~~ and  
14 the causes and consequences of such behaviour. Studies in the UK during the 1990s initially  
15 highlighted the incidence and risks of working while sick for physicians<sup>31,32</sup>. A survey of  
16 1,806 senior practitioners working in New Zealand's public health system found that nearly  
17 nine out of ten participants (88%) had attended work while being too sick to ~~perform to meet~~  
18 their usual standards ~~of performance~~ over the previous two-year period<sup>33</sup>. Three-quarters of  
19 the sample disclosed that they had worked while experiencing infectious illness. A recent  
20 study of 536 US clinicians also found that more than eight out of ten (83%) had worked while  
21 they were unwell<sup>34</sup>. More than half of the sample indicated that they would continue to  
22 attend work despite showing signs of potentially infectious disease such as respiratory  
23 symptoms and diarrhoea, although most (95%) recognised that this put patients at risk. ~~The~~  
24 ~~risk that working while unwell can pose to others, especially in safety-critical professions, is~~  
25 ~~discussed further below.~~

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39 ~~These studies indicate~~Research findings indicate that doctors engage in presenteeism  
40 for several reasons. Feelings of duty ~~and commitment~~ to patients appears to be particularly  
41 common, but several other factors were cited such as low staffing levels, lack of cover,  
42 concerns about patients' continuity of care, fear of letting colleagues down and losing their  
43 respect, and the need to portray a 'healthy' image<sup>34,35</sup>. ~~These studies indicate that s~~Strong  
44 professional and cultural norms of altruism and ~~even~~ self-sacrifice are commonplace ~~and,~~  
45 ~~where~~-taking sick leave is ~~often~~ considered a risk to the profession and a sign of weakness.  
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51 More knowledge is needed about physicians' decision-making processes when they  
52 experience ill-health and the factors that encourage them to work while sick or absent  
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10 themselves. Insight into the cognitions they use to balance the risk to patients, colleagues and  
11 their own wellbeing and sense of professional efficacy ~~of attending or not attending when~~  
12 ~~deciding to attend or refrain from~~ work is of particular interest.  
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19 The impact of presenteeism – individual health outcomes

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21 It is important to recognise that presenteeism is not necessarily damaging and working  
22 while not fully fit can be therapeutic. The companionship and self-esteem that comes from  
23 purposeful activity can aid recovery, distract people from minor symptoms, and encourage  
24 them to move beyond the sick role. A study of over 2,000 workers with musculoskeletal  
25 disorders who were referred to a functional restoration programme found that those who  
26 continued to attend work were more likely to complete the programme, return to work to full-  
27 duty or full-time, and to remain in work one year after treatment<sup>365</sup>. The extent to which  
28 working conditions, such as duties and working hours, can be adjusted to meet employees'  
29 needs is a key factor in determining whether presenteeism facilitates or impairs recovery ~~is~~  
30 ~~the extent to which working conditions, such as duties and working hours, can be adjusted to~~  
31 ~~meet employees' needs~~<sup>13</sup>. Different health complaints will result in different limitations that,  
32 in turn, will require different adjustments. For example, musculoskeletal problems can  
33 constrain physical functioning and depression can engender difficulties with time  
34 management, while both complaints can impair cognitive and interpersonal *skills*<sup>37</sup>.  
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46 Although working while sick has some potential to facilitate recovery, evidence for its  
47 damaging effects on health and safety is growing. A recent systematic review and sSeveral  
48 high-quality prospective studies have found that presenteeism increases the risk of future  
49 health problems and long-term sickness absence<sup>38</sup> ~~after controlling for demographic and~~  
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10 ~~work-related factors and prior health status~~. A cohort study of 1,831 Japanese employees  
11 found that sickness presenteeism measured at baseline was associated with depression and  
12 absence for mental health problems a year later, controlling for age and gender<sup>39</sup>. Moreover,  
13 a cohort of 5,071 male civil servants from the Whitehall II study<sup>40</sup> were subjected to baseline  
14 screening of health status and coronary risk factors and their sickness absence records were  
15 analysed for the following three years. Findings indicated that ‘unhealthy’ people that took  
16 no sick leave during the follow-up period had double the risk of serious coronary events as  
17 unhealthy employees whose sickness absence was moderate. There is evidence that even  
18 minor illnesses can eventually become serious and lead to extended absenteeism if ignored<sup>41</sup>.  
19 Chronic work-related stress and emotional exhaustion have also been positively associated  
20 with, as well as being directly associated with working while sick<sup>17</sup>. It presenteeism, has  
21 more indirect effects as it increases can also increase the risk of many health problems, such  
22 as coronary heart disease, hypertension and depression and down-grades the immune  
23 system<sup>42</sup>.

### The impact of presenteeism on others

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41 The risks of presenteeism for the health and safety of other people have also been  
42 recognised. Attending work when experiencing contagious illness (known as contagious  
43 presenteeism) is a recognised public health hazard that is likely to be particularly harmful  
44 when working with vulnerable people<sup>43</sup>. Presenteeism also has more indirect risks for the  
45 wellbeing of others. Colleagues may be required to put more effort into their work to  
46 accommodate the compromised performance of sick colleagues, thereby increasing their own  
47 work demands and associated threats to health.

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10 Most studies that have considered the implications of presenteeism for others have  
11 been conducted in healthcare settings. There is evidence that working while sick can lead to  
12 emotional exhaustion that can encourage cynical and depersonalising attitudes towards  
13 patients<sup>27</sup> with potentially serious consequences. For example, analysis of data from 178  
14 matched pairs of physicians and hospitalised patients found that doctors' depersonalisation  
15 resulted in lower patient satisfaction and longer post discharge recovery time<sup>44</sup> Presenteeism  
16 has also been associated with an increased risk of errors and accidents, as well as poorer  
17 ratings of care by patients<sup>45</sup>. A study of UK pharmacists found that they were more likely to  
18 prescribe the wrong medication or dosage when they were unwell<sup>29</sup>. Illness can impair job  
19 performance as more cognitive effort is needed to meet the standards required in the face of  
20 the distracting symptoms of illness. The capacity to monitor and respond promptly to  
21 environmental demands is also diminished, encouraging people to rely more heavily on  
22 routine thus increasing the risk of errors and lapses of judgement. Moreover, fatigue, a  
23 symptom of many health conditions, can impair perception, judgement and motor skills and  
24 is a major cause of accidents and 'near misses'<sup>46</sup>. These studies highlight the serious  
25 implications of working while sick for others but, as they typically rely on subjective reports  
26 of presenteeism and health and safety performance, more objective assessments are required  
27 to identify the risks. Research with longitudinal designs is also needed to identify the  
28 implications of presenteeism for the health and safety of other people over time.  
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#### 46 Managing presenteeism

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49 Although presenteeism is not necessarily harmful, this article has highlighted its  
50 potential negative effects especially for people whose work is safety critical. Most  
51 organisations are taking steps to reduce absenteeism<sup>4</sup> but achieving this without increasing  
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damaging presenteeism will be challenging. As discussed above, people work while sick for many economic, cultural, moral and social reasons that may be largely unrelated to their health status and functional limitations. These factors will also interact; for example, an employee who is overloaded at work and whose job is insecure may be more likely to work during illness if they have recently taken sick leave. Moreover, healthcare professionals may be more likely to engage in presenteeism if their unit is short-staffed, they are deeply committed to the wellbeing of their patients and their line manager also works through illness.

There is evidence that people find it difficult to decide whether sick leave is justified unless they are given explicit guidance from professionals: i.e. ‘told’ to either stay home or to go to work. A study that interviewed 30 people who had been absent for musculoskeletal complaints found that those with a specific medical diagnosis (such as a fracture) felt that their absenteeism was justified, whereas those with unidentifiable disorders (such as low back pain) found the decision to take sick leave more challenging<sup>47</sup>. Without clear guidelines some employees may ‘play it safe’ and absent themselves while others with a similar condition will continue to work, although their long-term health and the safety of others may be compromised. It is nonetheless challenging for medical professionals to establish with any certainty when, or to what extent, work will facilitate or hinder recovery from an illness, injury or a long-term condition for any individual worker. Indeed, research findings show that doctors themselves frequently work while sick because they lack clear guidelines from their employers on when they should take sick leave<sup>33</sup>. ‘Visibility’ of illness seems an important criterion for healthcare staff, as this study found that doctors often feel obliged to ‘present’ themselves at work to show-demonstrate to others that they are genuinely ill before going off sick. Insight was also provided into the perceived legitimacy of different complaints as a reason for doctors to take sick leave. Findings showed that fatigue, even if extreme, would

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10 not be considered a legitimate reason for sickness absence, although its potentially serious  
11 effects on job performance (outlined above) ~~was-were~~ acknowledged.

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13 Multi-level, systemic approaches to managing presenteeism are required. Such  
14 initiatives should include primary prevention, where risks factors are identified and wherever  
15 possible eliminated at source, as well as secondary or individual level interventions. An  
16 annual survey of UK human resource professionals shows that many organisations see  
17 presenteeism as a growing cause for concern, ~~with and~~ the proportion of participating  
18 organisations ~~taking that take~~ preventative action ~~rising-rose~~ from 31% in 2015 to 48% in  
19 2016<sup>4</sup>. Nonetheless, survey respondents acknowledged that operational demands frequently  
20 took precedence over the health and wellbeing of their employees and the overall level of  
21 work-related stress (a key predictor of presenteeism) reported remained high. It is crucial to  
22 encourage organisations to take a long-term view where fears about the immediate costs of  
23 sickness absence are balanced by a recognition of the risks of presenteeism for the future  
24 health and functioning of employees ~~and how it can undermine their professional functioning~~.  
25 Undertaking a critical review of sickness management policies to ensure that employees are  
26 not penalised for taking sick leave to manage their conditions should prove effective.  
27 Establishing cultural norms that encourage people to take sufficient time off sick to recover is  
28 also ~~erucial~~vital. The behaviour of line managers is a ~~strong~~ fundamental predictor of the  
29 sickness culture in organisations. Encouraging managers to help employees keep work in  
30 perspective and to act as role models for appropriate and 'healthy' sickness behaviour ~~are is~~  
31 likely to be particularly effective<sup>3,48</sup>.

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Staff wellbeing surveys could help organisations record trends in health complaints  
and associated attendance behaviours ~~ss (both absenteeism and presenteeism)~~. Relying on  
sickness absence statistics to assess health status is misleading, so including a measure of  
sickness presenteeism is likely to provide a more accurate indicator. Incorporating measures

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10 of health-related productivity loss, such as the Stanford Presenteeism Scale<sup>6</sup>, and cross-  
11 referencing these findings with health and safety records would also highlight the risks of  
12 working while sick. ~~This could be supplemented by open-ended questions that seek to~~  
13 ~~identify the reasons why people work while sick.~~ A preventative approach should also  
14 ~~identify~~ attention to the structural factors that can underpin presenteeism, such as long working  
15 hours, high demands, low support and lack of sickness cover, ~~is also required~~ using valid risk  
16 assessment procedures such as the UK Management Standards approach<sup>25,49</sup>. There is  
17 evidence that increasing opportunities for flexible working may reduce presenteeism,  
18 especially for people with long-term conditions<sup>50</sup>. The findings of a nested study of  
19 employees with rheumatoid arthritis support this view, as those who could self-schedule their  
20 working hours had lower presenteeism and activity impairment<sup>51</sup>. Flexible working  
21 arrangements allow an increasing number of people to work from home using mobile  
22 technologies. People who ‘e-work’ tend to have lower levels of sickness absence<sup>52</sup>,  
23 presumably because they are more able to accommodate the limitations of any symptoms  
24 they may experience. Nonetheless, there is some evidence that technology can facilitate  
25 damaging presenteeism by encouraging employees to be ‘always on’. It can enable people to  
26 continue to work at home (or even when hospitalised) despite being formally signed off sick;  
27 this is a particular risk when workloads are high, support and staffing levels are low, and  
28 employees are deeply involved in their work and miss the intellectual stimulation it  
29 provides<sup>53</sup>. Organisations may ~~turn a blind eye to overlook or even implicitly encourage~~ such  
30 behaviour, but it is likely to delay recovery and may be ~~considered~~ a breach of the employer’s  
31 duty of care.

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49 Interventions are particularly important in healthcare organisations where working  
50 during sickness may satisfy short-term operational imperatives but could have long-term risks  
51 for staff and patients. In such environments, it is particularly important to reframe taking  
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10 legitimate sick leave as responsible and healthy behaviour and presenteeism as a potential  
11 public health risk. Of some concern are the findings of a recent study of healthcare workers  
12 in Croatia indicating that staff in organisations with a stronger safety culture were more,  
13 rather than less, likely to work while sick<sup>54</sup>. These findings ~~indicate~~ suggest that safety culture  
14 can over-ride the self-care of health professionals which will in fact compromise rather than  
15 improve patient safety.  
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23 Occupational health physicians have a key role to play in providing guidance to  
24 organisations and employees on what constitutes ‘fitness for work’ and communicating the  
25 risks of presenteeism. They can also help employers introduce procedures to identify whether  
26 continuing to work is likely to enhance or impair recovery and how reasonable adjustments  
27 could be made. Working while not fully recovered could be part of a negotiated return-to-  
28 work plan that may involve part-time or flexible arrangements, or tasks that are less  
29 demanding. Occupational health professionals could also help organisations reduce some of  
30 the risks for absenteeism and presenteeism by introducing secondary-level interventions  
31 aiming to improve the general health and fitness of employees via wellness programmes  
32 and self-care guides. As stress has been associated with presenteeism, employee assistance  
33 programmes and multi-level stress management initiatives could also be effective.  
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43 Presenteeism is not a new phenomenon but, compared to absenteeism, it has been  
44 little studied. Knowledge of the factors that encourage people to work while sick and the  
45 implications for employees, organisations and members of the public is growing. The  
46 introduction of evidence-informed systemic interventions to reduce damaging presenteeism,  
47 especially in safety-critical environments, are therefore crucial. Physicians have a key role to  
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10 play in building more healthy sickness absence cultures in organisations, both for their  
11 personal wellbeing and for the health and safety of others.  
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