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Lack of knowledge of physical activity guidelines: can physical activity promotion campaigns do better?

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ABSTRACT

Objectives: To identify the prevalence of knowledge of the current UK physical activity guidelines which were introduced in 2011 and prior physical activity guidelines (30 min on 5 days each week) within two large samples of UK adult’s. To investigate whether knowledge of physical activity guidelines differs according to demographics such as ethnicity, age, education and employment status.

Design: Descriptive cross-sectional study comparing two distinctive adult samples.

Setting: National survey and online-administered survey conducted in England.

Participants: The 2007 Health Survey for England provides data on knowledge of physical activity guidelines from 2860 UK adults (56% women, 89% white, 63% under 45 years old). In 2013, an online survey was disseminated and data were collected from 1797 UK adults on knowledge of the most recent physical activity guidelines. The 2013 sample was 70% women, 92% white and 57% under 45 years old. All adults in both samples were >18 years old and without illnesses/disorders likely to restrict physical activity.


Results: 18% of the 2013 sample accurately recalled the current physical activity guidelines compared with 11% of the 2007 sample who accurately recalled the previous guidelines. The differences in knowledge of physical activity guidelines existed for marital status, gender, age, education and employment status within both 2007 and 2013 samples (p<0.05). Men with lower education and employment status (unemployed including student and retired) and older adults were less likely to know physical activity guidelines (p<0.05). Knowledge of physical activity guidelines remained higher in the 2013 sample after controlling for demographic differences (p<0.05).

Conclusions: Disadvantaged population groups are less knowledgeable about physical activity guidelines. Although knowledge of physical activity guidelines appears to have increased in recent years demographic disparities are still evident. Efforts are needed to promote health information among these groups.

Strengths and limitations of this study

- The present study is limited because of differences between the two surveys. Health Survey for England 2007 was delivered via face-to-face interviews whereas the 2013 survey was delivered online.
- Furthermore, convenience sampling was used for the 2013 survey with an over-representation of females and employed adults.
- Strengths of the study are that demographic variables, including ethnicity and age, were similar between the surveys, while employment status and age were statistically controlled for and did not influence our outcomes. We therefore believe that comparisons between both surveys are valid. In addition, the large sample size strengthens the present research.

BACKGROUND

Physical activity (PA) reduces the risk of morbidity and mortality from chronic diseases.1 Increasing evidence of the importance of PA to health has led to the promotion of a ‘PA is Medicine’ agenda and calls for global PA policies.2 3

In 1975, the first form of PA recommendations for adults were released in the USA by the American College of Sports Medicine.4 By 1995, American adults were being advised to accumulate at least 30 min of moderate-to-vigorous PA (MVPA), on preferably all days, each week.5 In 1996 in England, the Department of Health followed similar guidelines from the ACSM and recommended 30 min of MVPA on at least 5 days/week.6 Over the past few years, there has been a shift within the UK and globally towards more uniform guidelines. In 2008, the first PA guidelines for Americans to be issued by the Federal government were published following a comprehensive expert’s review of scientific data. These guidelines were the first to state recommendations specifically as 150 min/week of MVPA.7 Previously, guidelines in the UK had been disseminated separately by health agencies within each home country. In 2011, the four UK
Chief Medical Officers published the first UK-wide PA guidelines. This document followed the lead of the US guidelines and reported the new adult guidelines of 150 min a week of MVPA. This format was also used in global PA guidelines issued by the WHO. The changes in the guidelines have also been reflected in the messages of the various coinciding campaigns, for example, “Every small step is... a way to get 30 minutes” (Get A Life, Get Active launched in Northern Ireland in 1999) and “Get going for 150 minutes a week” (Change4Life launched across the UK in 2009). The purpose of these campaigns is to encourage adults to reach or exceed the current MVPA guidelines.

In 2008, only ~5% of the UK and US adults engaged in enough MVPA to meet the recommendations. Theories such as the Precaution Adoption Process model (PAPM) and Protection Motivation Theory suggest that individuals must be accurately aware of their current actions, such as through self-monitoring, in light of alternative and desired actions to be able to initiate change, that is, I do this much MVPA but this much MVPA is recommended. In addition, the Department of Health strategic framework ‘Ambitions for Health’ details a strategy to embed informative social marketing campaigns within health behaviour change campaigns. It would therefore be beneficial to investigate knowledge of MVPA guidelines within the broad UK adult population before and after the long-standing guidelines of 30 min on 5 days/week were updated with 150 min/week in 2011. Chaudhury and Shelton found that only 5% of the UK adults aged 60–64 (N=561) accurately recalled the general MVPA guideline in 2007. Less than 1% of adults (N=4281) selected the correct guideline from a list of six options in a recent US survey. Those with a lower educational level also demonstrated lesser knowledge of guidelines. This research, however, does not give an indication of unprompted knowledge which may be a stronger correlate with behaviour change.

The objectives for this study were (1) to compare knowledge of the current UK MVPA guidelines for adults (3 years after their introduction in 2011) with knowledge of prior MVPA guidelines (2004 up until 2010) in two large samples of adults, (2) to identify whether demographic characteristics such as, gender, age and socioeconomic status (SES) are associated with knowledge of MVPA guidelines at either time point.

METHODS
Survey and analytical sample
Data were analysed from the 2007 Health Survey for England (HSE) and an online survey disseminated in 2013.

2007 data (before dissemination of current PA guidelines)
The HSE is an annual survey of non-institutionalised UK individuals. A stratified, two-stage, random sample representative of the sociodemographic profile of the English population was recruited using a Postcode Address File. A total of 14 385 adults participated in the 2007 HSE. The present research excluded individuals aged <18 years and adults with health conditions which restricted PA. This resulted in 4491 eligible adults from which 2860 had valid data for knowledge of contemporary (2004) PA guidelines.

2013 Data (after dissemination of current PA guidelines)
The 2013 survey was developed using an online survey software and questionnaire tool (http://www.surveymonkey.com). The staff from UK academic institutions, professional organisations (the National Health Service (NHS), teaching bodies, trade unions, etc) and those attached to independent businesses were invited to complete the survey. Of the 2332 respondents to the 2013 survey, 1797 provided data for unprompted knowledge of current MVPA guidelines. Approval for the study was received from the host university ethics committee.

Measures
The following measures were included on both the 2007 HSE and 2013 survey.

Demographic characteristics
Gender, age, ethnic background, marital status (single, married/civil partnership, divorced/separated, widowed), education (highest level), employment status (employed, unemployed, retired, student/other economically inactive) and self-reported health status were assessed.

Following measures were included in the 2007 HSE
Knowledge
Participants were asked “How many days a week do you think people of your age should do physical activity? Include all moderate PA, including PA as part of a job. By week we mean the whole week including weekends.” This is followed by, “On each of the days someone of your age does moderate physical activity, how many minutes a day should they do it for to be good for their health?” Those who gave an answer consistent with contemporary MVPA guidelines of 30 min/day on 5 days/week were considered correct.6

Following measures were included in the 2013 survey
Knowledge
In line with the previous research, the participants were first asked “are you aware that there are physical activity guidelines available for adults?” Those who indicated that they were aware were then asked the open-ended question, “What are the physical activity guidelines?” To enable comparison to HSE data, only information regarding the duration of PA was included in the analysis. Those who gave an answer consistent with the current guidelines of 150 min/week were considered correct.
**Statistical analysis**

Prevalence rates for UK adults with correct knowledge of MVPA guidelines in 2007 and in 2013 were calculated. Associations with gender, age, ethnicity, marital status, education, employment status and self-reported health were assessed using χ² analysis and standardised residuals adjusted for multiple comparisons (Bonferroni). Stepwise multiple logistic regression was used to investigate the differences in knowledge between the 2007 HSE sample and the 2013 survey sample. Variables were selected based on χ² analysis, with significant demographic factors included in the model. IBM SPSS Statistics V.19 was used with α set at 0.05.

**RESULTS**

The 2007 HSE sample was: 56% women, 89% white and 63% under 45 years. Eleven per cent accurately recalled the MVPA recommendation, 46% overestimated and 43% underestimated. The differences were identified for marital status (p<0.05), gender (p<0.005), age (p<0.001), education (p<0.05) and employment status (p<0.05) but not for ethnicity (p=0.21) or self-reported health (p=0.32). Standardised residuals suggested that younger (18–24 years), unmarried adults were more likely to overestimate. Adults with no economic activity (eg, students/retired) and men were less likely to be accurate whereas those with a higher education (degree/equivalent) were more likely to have accurate knowledge of PA guidelines.

The 2013 survey sample was 70% women, 92% white and 57% under 45 years. Without prompting, 18% accurately recalled the current MVPA recommendation. Eighty-two per cent did not know the guideline with 12% overestimating. Differences in unprompted knowledge were identified for gender (p<0.001), age (p<0.05), marital status (p<0.05), employment status (p<0.05), education (p<0.05) and health status (p<0.005), but not for ethnicity (p=0.3). Standardised residuals suggested that older men with a lower education were more likely to report incorrectly. Younger adults (18–24 years), students and single adults were more likely to recount old guidelines (30 min 5 days/week). Knowledge of guidelines according to demographic characteristics is shown in table 1. Only 66% of individuals who recalled MVPA guidelines accurately recalled the intensity of PA that is recommended. Of these, the most common descriptor was moderate or moderate-vigorous (40%). Inclusion of physiological parameters such as an elevated heart rate was the second most commonly used descriptor (23%). The remaining 3% referred to intensity necessary to increase fitness, effort/exertion or used walking as an exemplar.

As gender was found to be an important moderator of knowledge of guidelines and differed between groups, a multiple logistic regression model was conducted to identify whether the gender difference accounted for differences in knowledge between 2007 and 2013 samples. In this model, adults from the 2007 HSE sample were significantly less likely to accurately recall MVPA guidelines (p<0.001, OR=0.58). Women were significantly more likely to be knowledgeable (p<0.05, OR=1.38). When education and employment status were added to the model, the difference between samples remained significant (p<0.005 OR=0.72). Only gender (p<0.001) and education (p<0.001) moderated the relationship between samples (2007 and 2013) and knowledge, accounting for 38% of the variance in knowledge of guidelines. In this model, men (OR=0.70) and those with the lowest education (OR=0.57) were less likely to demonstrate accurate knowledge of guidelines.

**DISCUSSION**

Results indicate that knowledge of MVPA guidelines has improved since guidelines were updated in 2011. However, in 2013, still only 18% of adults accurately recounted the recommendations (when only duration was considered). This drops to 11% when only the adults who provided an appropriate description of intensity are considered. This is disappointing as improved knowledge of MVPA guidelines within the adult population would represent an initial step towards positive behaviour change. While knowledge alone is unlikely to stimulate a behaviour change, awareness of the required behaviour is a determinant of behaviour change. The PAPM suggests that individuals are unlikely to change their behaviour unless they become aware that their behaviour is not optimal. Compared with 2007, adults in 2013 do not appear to be better educated regarding MVPA recommendations.

Mass-media campaigns are currently used to improve the provision of health information to the general public. The release of the most recent guidelines in 2011 was promoted by the Department of Health campaign ‘Change4Life’. Change4Life had a £75 million budget for social marketing to promote five key health behaviours, one of which was PA. Early publications from this campaign suggest it achieved a high visibility and recall of its messages within the target populations. While knowledge does appear to be moving in the right direction (at least for duration of MVPA), better results were expected in light of the promotional efforts which have supported the current guidelines. Inconsistency of messaging from Change4Life and other campaigns may create confusion and lead to inaccurate responses. Piggott has previously identified contradictory messages presented by different Change4Life informational materials. Indeed, a search of PA campaign messages released since 2011 uncovers various messages which could be perceived as inconsistent. For example, a Change4Life newsletter released in November 2011 stated “Get going every day for 10, 20 or 30 minutes” while an advert released only a few months previously for MacMillan’s Move More campaign suggested, “Just a short walk can help...” For World Physical Activity Day 2011, a Coca Cola sponsored advert reads “all this

[health benefits] with just 30 minutes of physical activity every day. Some campaigns have also failed to update their messages in line with the update in the recommendations. The Get A Life, Get Active campaign website homepage has not updated its message since 2009 and still states ‘30 min on most days for adults’. Indeed, 9% of adults from the 2013 sample reported the old guideline (2004–2010) when asked to recall the current guideline (2011). While the aforementioned messages are not necessarily incorrect, campaigns need to become more

Table 1 Proportions of adults who were aware of guidelines and had accurate knowledge of guidelines in the HSE 2007 and 2013 survey, stratified according to demographic group

<table>
<thead>
<tr>
<th></th>
<th>HSE 2007 Survey</th>
<th></th>
<th>Survey 2013</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Accurate knowledge of guidelines</td>
<td>Per cent</td>
<td>N</td>
<td>Per cent</td>
</tr>
<tr>
<td>Total</td>
<td>11</td>
<td>2860</td>
<td>18</td>
<td>1797</td>
</tr>
<tr>
<td>Gender</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Male</td>
<td>9.3</td>
<td>1239</td>
<td>15.2</td>
<td>540</td>
</tr>
<tr>
<td>Female</td>
<td>12.2*</td>
<td>1621</td>
<td>19.4*</td>
<td>1250</td>
</tr>
<tr>
<td>Ethnicity</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>White</td>
<td>10.7</td>
<td>2550</td>
<td>18.6</td>
<td>1670</td>
</tr>
<tr>
<td>Mixed</td>
<td>16.7</td>
<td>42</td>
<td>14.8</td>
<td>27</td>
</tr>
<tr>
<td>Asian/Asian British</td>
<td>13.1</td>
<td>153</td>
<td>18.2</td>
<td>44</td>
</tr>
<tr>
<td>Black/Black British</td>
<td>13.8</td>
<td>80</td>
<td>5.9</td>
<td>17</td>
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<tr>
<td>Chinese/other</td>
<td>5.9</td>
<td>34</td>
<td>5.1</td>
<td>39</td>
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<tr>
<td>Age (years)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18–24</td>
<td>11.5</td>
<td>349</td>
<td>21.2</td>
<td>203</td>
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<tr>
<td>25–34</td>
<td>13.6</td>
<td>633</td>
<td>17.6</td>
<td>393</td>
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<td>35–44</td>
<td>11</td>
<td>789</td>
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<td>45–54</td>
<td>9.9</td>
<td>616</td>
<td>17.5</td>
<td>452</td>
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<tr>
<td>55+</td>
<td>8.2</td>
<td>473</td>
<td>14</td>
<td>322</td>
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<td>Employment status</td>
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<tr>
<td>Employed</td>
<td>11.9*</td>
<td>2210</td>
<td>17.7</td>
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<tr>
<td>Unemployed</td>
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<td>137</td>
<td>11.5</td>
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<tr>
<td>Retired</td>
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<td>14.3</td>
<td>14</td>
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<tr>
<td>Other</td>
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<td>376</td>
<td>22.1</td>
<td>244</td>
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<tr>
<td>Highest education level</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Degree</td>
<td>13.2*</td>
<td>893</td>
<td>19.1*</td>
<td>1569</td>
</tr>
<tr>
<td>Vocational/technical</td>
<td>9.5</td>
<td>359</td>
<td>7.4</td>
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<tr>
<td>Some college/sixth form</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Finished</td>
<td>9.1</td>
<td>776</td>
<td>12.5</td>
<td>18</td>
</tr>
<tr>
<td>Some secondary school</td>
<td>9.3</td>
<td>332</td>
<td>50</td>
<td>2</td>
</tr>
<tr>
<td>Marital status</td>
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<tr>
<td>Single</td>
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<td>925</td>
<td>17.6</td>
<td>665</td>
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<td>1590</td>
<td>18.5</td>
<td>932</td>
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<td>302</td>
<td>14.7</td>
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<td>Widowed</td>
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<td>34.8</td>
<td>23</td>
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<tr>
<td>Self-rated health</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Good</td>
<td>11.1</td>
<td>1284</td>
<td>20.3</td>
<td>576</td>
</tr>
<tr>
<td>Rather good</td>
<td>10.5</td>
<td>1251</td>
<td>20.0</td>
<td>544</td>
</tr>
<tr>
<td>Average</td>
<td>11.2</td>
<td>303</td>
<td>14.5</td>
<td>530</td>
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<tr>
<td>Rather poor</td>
<td>27.8</td>
<td>18</td>
<td>11.4</td>
<td>123</td>
</tr>
<tr>
<td>Poor</td>
<td>100</td>
<td>2</td>
<td>33.3</td>
<td>24</td>
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</tbody>
</table>

*Standardised residual indicates a greater probability of accurate awareness or knowledge of guidelines within this category.
coherent if the strategy is to improve knowledge of guidelines. Indeed, the unification of the US, UK and global PA guidelines will be undermined if the messages which follow are isolated and random.7–9 The failure of PA campaigns to disseminate consistent messages, both between each other and between various arms within their own campaigns, may have led to misinformation and confusion for many adults.

In addition to the continuing lack of education pertaining to the guidelines, the present research highlights two areas of concern. First, disparities in health knowledge continue to be evident. In both the 2007 and 2013 samples, those with lower education, lower employment status and older adults were less likely to know PA guidelines. The Chief Medical Officers voiced concerns regarding the disproportionately low involvement in PA of disadvantaged groups in the society. An improved provision of information and opportunities for these groups to engage in PA was a target of the government-backed campaigns ‘Change4Life’ and ‘HealthyPeople’.28 29 Despite these pledges, PA campaigns appear to have been less successful in reaching these groups. The strategies to educate and reach disadvantaged groups within society, especially those with a low education or SES, are urgently required. Second, adults generally consider only the duration component of PA recommendations. While the 2007 HSE sample were asked specifically for the recommended duration of PA, the 2013 survey sample was asked an open question which allowed them to include any aspects of the guidelines of which they were aware of. Despite this, only 11% of adults included an appropriate descriptor of intensity. Even when adults were prompted to provide a descriptor of intensity, only 13% did so. Only 2% provided a physiological parameter which could be practically used to monitor intensity.

In recent years there has been a rise in the number of campaigns promoting lifestyle activities, especially walking, as a proxy for MVPA. While walking is undoubtedly an accessible and appropriate form of PA, the intensity of walking varies greatly within the population. Brisk walking is promoted by many PA campaigns as an example of MVPA, but in actuality, the walking performed by many is less than brisk.30 31 While such campaigns may increase the perceived accessibility of PA and cater to adults’ PA preferences,32 they often fail to educate individuals about the necessity for PA to be effortful in order to induce health benefits. It is possible that a lack of knowledge regarding intensity requirements may result in adults engaging in more PA of low intensity but not sufficient MVPA to meet the guidelines. In addition, adults may struggle to see the difference between their own current behaviours and the behaviours being promoted. The PAPM suggests that individuals need to be aware that their actual behaviour is different from the desired behaviour and that this may put their health at risk.14 Awareness of personal risk behaviour is especially important to proceed from pre-contemplation to contemplating behaviour change. Based on the PAPM, it can be expected that people may only proceed to contemplation when they become aware that they engage in too little PA and/or that their PA is not of a sufficient intensity. With the emergence of alternative strategies to improve health, such as by breaking up sedentary time or increasing light activity, the difference between actual and desired behaviour becomes less obvious. The benefits of engaging in more light activity and of reducing or breaking up sedentary time are evident.33–35 Guidelines regarding sedentary behaviour have already been developed in Canada and Australia and the current UK PA guidelines recommend developing sedentary behaviour guidelines as a priority.8 36 57 The various discourses surrounding PA and health may cloud directives to the lay population (ie, ‘Is desirable behaviour to be less sedentary, or to be more active, or to do more MVPA?’). While research across the intensity continuum of PA is rapidly increasing, transmitting such knowledge to the general population may require more complex messages but an understanding of how to effectively develop such messages lags behind.

Knowledge of guidelines was low in the present study (ie, only 18% adults knew the duration component of MVPA guidelines); however, this is more than that reported for American adults, where less than 1% knew PA guidelines when surveyed in 2009 (N=4281).20 There are two possible reasons why knowledge was higher in the present study. First, in this study, the MVPA guideline had been consistent for at least 3 years prior to both samples completing their respective surveys. In the American study, only 10 months separated the dissemination of a changed guideline and the completion of the survey. Indeed, 33.3% of American adults selected the old 30 min on 5 days/week guideline relative to 9% in the present study.20 In addition, the American survey employed a closed question with six response options. Two of these were correct according to old guidelines. Prompting from these response options may have triggered more incorrect responses.

CONCLUSIONS

The present study identified knowledge of PA recommendations in two large UK adult samples from 2007 to 2013. Results indicate that knowledge of guidelines has slightly improved. This study has implications for future promotional campaigns. Messages need to be developed to target individuals with lower education and employment status. In addition, further research is needed to develop an effective strategy for promoting more comprehensive educational messages related to PA guidelines. Campaigns need to straddle the thin line between messages which capture awareness, and are informational and motivational. In the present study, only 2% of adults acknowledged that PA should be effortful. Intensity is an important aspect of health-enhancing PA and should not be neglected by PA campaigns. Increasing understanding of the intensity continuum

will likely result in a broader range of PA being included in media campaigns. Messages from these campaigns need to work in synergy to ensure effective communication of the benefits of the various forms of accumulating MVPA.

Contributors ECLK initiated the study, designed the data collection tools (2013 survey), monitored data collection for the 2013 sample, planned the statistical analysis, cleaned and analysed the data for the whole study and drafted and revised the paper. She is the guarantor. DWE and SJHB revised the draft paper, LS revised the data collection tools (2013 survey) and revised the draft paper.

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Competing interests None.

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Provenance and peer review Not commissioned; externally peer reviewed.

Data sharing statement HSE 2007 data are available open-access from the ESSD website at http://www.essd.ac.uk/findingData/hseTitles.asp

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