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High Performance HRM and Establishment Performance in Pakistan: An Empirical Analysis

Mansoor Ahmad

Matthew M.C. Allen

<u>Abstract</u>

Purpose: Despite a growing literature on human resource management in emerging economies, evidence from Pakistan is limited. There is scant information on both the HR practices that indigenous workplaces adopt and their associations with HR-related outcomes. This paper fills that gap by examining whether universalistic assumptions about the applicability of 'high performance' HR practices are valid in Pakistan, a country with religious values and organizational traditions that differ to those in the West.

Design/methodology/approach: This study draws on the, to date, most comprehensive survey of indigenous establishments in Pakistan. The data were analysed using logistic regressions.

Findings: Workplaces, in general, adopt several 'high performance' HR practices, such as extensive training, career breaks, rigorous pre-employment candidate assessment, and the sharing of strategic information with employees. Attitude surveys and the provision of training in a variety of jobs to non-managerial employees are consistently associated with better HR-related outcomes (absenteeism, quit rates, and labour productivity). Overall, the paper finds some limited support for the applicability and efficacy of high-performance HRM practices in Pakistan. Such practices conform to Islamic principles. The results also indicate, however, that cultural traits play a role in how those practices are implemented.

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Social and practical implications: Increased adoption of certain HR practices by

establishments in Pakistan may also help to improve the working conditions and employment

prospects of employees and may also ameliorate the country's sluggish economic growth

rates.

Originality/value: HRM in Pakistani establishments has received relatively scant attention.

Existing research either focuses on a relatively small number of firms, assesses HR in MNC

subsidiaries, or examines a limited range of HR practices. Understanding the HR practices

that are (and are not) adopted and their associations with performance outcomes will not just

enhance our knowledge of HR in emerging economies, but also provide insights into how

establishment performance and economic growth rates might be improved.

Keywords: 'high performance' HR practices, absenteeism, quit rates, productivity, emerging

economies, Pakistan

Article Classification: Research paper

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Introduction

Research on the links between 'high-performance' HR practices and organizational performance is an important strand of the literature (Guest *et al.*, 2003; Huselid, 1995; Ichniowski *et al.*, 1997; Wood, 1999; Wood and de Menezes, 1998, 2008). Much of this work examines firms in developed economies. Studies that examine HRM in developing economies tend to focus on MNC subsidiaries at the expense of examining HR policies in indigenous (local) firms (Budhwar and Debrah, 2001, 2009).

There has, however, recently been an upsurge in interest in the HR practices of indigenous firms in developing economies, including those in the Indian sub-continent (Chand and Katou, 2007; Chandrakumara, 2007; Raman *et al.*, 2007) and the Middle East (Budhwar and Mellahi, 2006). Increased international economic competition, a lack of awareness and understanding of HR practices in indigenous firms, and a desire to assess if high-performance HR practices that emerged in Western countries can be applied in developing economies lie behind these studies (Budhwar and Debrah, 2009; Ramdani *et al.*, 2014).

Very little is known, however, about, first, the human resource practices of Pakistani establishments (or business units) and, second, the links between HRM and establishment performance there (Budhwar and Singh, 2007; Chaudhry 2013; Debrah and Budhwar, 2001; Khilji, 2001, 2002; Tayeb, 1997; Yasmin, 2008). Previous research either focuses on a relatively small number of firms, whose findings cannot be generalized (Chaudhry, 2013; Khilji, 2001); assesses HR in MNC subsidiaries (Chaudhry, 2013; Khilji, 2002); or examines a limited range of HR practices (Yasmin, 2008).

Pakistan is a particularly interesting country to study the associations between highperformance HR practices and establishment performance for three main reasons. First, Pakistan is characterized by collectivism, high power distance (Mangi *et al.*, 2012), and high uncertainty avoidance (Islam, 2005) that largely account for organizational practices, such as nepotism, centralization, and corruption, that some research identifies as traits of Pakistani organizations (Islam, 2005; Khilji, 2002). These characteristics could, as is discussed below, hinder both the adoption and efficacy of high-performance workplace practices.

Second, the role of religion in management, although largely ignored until recently (Mellahi and Budhwar, 2010), is important in Pakistan (Khilji, 2002; Tayeb, 1997), as it is in other emerging economies with Muslim majorities (Ali, 2010; Branine and Pollard, 2010; Hashim, 2010). Even though the philosophical foundations of the Islamic model of HRM differ to those of Western thought (Ali, 2010), they do not contradict the principles of high-performance workplace practices that came to prominence, and have evolved, in the US and the UK (Ali, 2010). Indeed, in many instances, Islamic principles of HRM converge with those of high-performance HRM practices (Abuznaid, 2006; Ali, 2010; Branine and Pollard, 2010; Budhwar and Mellahi, 2007; Mellahi and Budhwar, 2010). The role of religion may, therefore, encourage the use and efficacy of high-performance HR practices in indigenous establishments.

Finally, low labour productivity is one of the causes of sluggish economic growth in Pakistan (World Bank 2013). HR practices that improve employees' skills and increase productivity may also ameliorate social and working conditions, key concerns for Pakistani policy makers (NAVTEC, 2009; World Bank, 2013). Indeed, policy makers have recognized that the sectors examined in this study, the banking, ICT, and pharmaceutical industries, are crucial to boosting growth and productivity (Government of Pakistan, 2007; NAVTEC, 2009; PPMA, 2013; World Bank, 2013). High-performance HRM practices could help to do that.

This study differs from the dominant literature on HRM in emerging economies in three significant ways. First, it draws on the, to date, most comprehensive survey of a wide range of potential high-performance HR practices in indigenous workplaces in Pakistan, an oft overlooked country in the literature (Budhwar and Singh, 2007; Khilji; 2001, 2002). Second, it examines the links between high-performance HR practices and HR-related outcomes amongst indigenous establishments. Existing research on HRM in developing economies often downplays such links (Budhwar and Debrah, 2009; Ramdani *et al.*, 2014). Finally, it sheds light on the applicability and utility of high-performance HR practices in Pakistan, a developing economy and an important site to assess universalistic assumptions about the benefits of certain HR practices (Budhwar and Debrah 2001, 2009).

The following section justifies the selection of HR practices examined in this paper and reviews major studies of those HR measures and the performance outcomes assessed here (absenteeism, quits, and labour productivity). A section that develops the hypotheses and another that specifies the research design and methodology then follow. The subsequent section provides the results. The final section discusses the findings and concludes.

Literature Review

This paper draws on the universalistic approach to HRM to explore HRM and performance issues in Pakistan. This approach views employees as the firm's key resource, as other sources of competitive advantage are less important than they once were (Pfeffer, 1994: 6). The universalist approach, in contrast to contingency and configurational frameworks, assumes that 'high performance' HR practices will help to improve establishment performance, irrespective of product market, industry, or workforce characteristics (Demirbag *et al.*, 2014; Huselid, 1995: 668; Macky and Boxall, 2007; Marchington and Wilkinson, 2008).

Overall, there is evidence from developed countries to support a link between highperformance HR practices and beneficial workplace outcomes (Combs *et al.*, 2006; Guthrie *et al.*, 2009; Hoque, 1999; Huselid, 1995; Ichniowski *et al.*, 1997; Koch and McGrath, 1996; Wood and de Menezes, 2008). However, the majority of the extant research has been conducted on firms or establishments in developed economies, often the US (Tüselmann *et al.*, 2007). Thus, there is a need to deepen our understanding of the links between HRM practices and organizational performance in developing economies (Budhwar and Debrah, 2009), including Pakistan.

Hypothesis Development

In order to capture a broad range of core high-performance HR practices that may help to improve establishment performance, this study draws on Marchington and Wilkinson's (2008) and Pfeffer's (1998) frameworks. In particular, we examine employment security and internal labour markets; selective hiring and sophisticated selection; extensive training, learning, and development; employee involvement, worker voice, and participation; team work; performance-related pay; performance review, appraisal, and career development; the reduction of status differentials; and work-life balance. Whilst there is no consensus on which HR practices are high-performance ones (Guthrie *et al.*, 2009: 112), they often include those selected here (e.g. Collings *et al.*, 2010; Demirbag *et al.*, 2014).

Given the dearth of large-scale studies of HRM in Pakistan, we consider these practices individually rather than collectively, enabling us to provide fine-grained analysis and to examine the influences of culture, religion, and organizational traditions on separate HR practices rather than presuppose the extensive use of particular practices as part of HRM bundles. For instance, Pakistani culture and Islamic values, including collectivism and high power distance, are likely to influence the use and efficacy of the selected practices (Boxall and Purcell, 2011). In addition, precisely because we focus on the largest non-managerial employee group, we will be able to detect any organizational traits, such as centralization and clear status differentials, that some research has found amongst Pakistani firms (e.g. Islam,

2005; Khilji, 2002) and that are likely to influence HRM practices (Boxall and Purcell, 2011). The examination of the chosen practices is especially salient for the sectors analysed here (banking, ICT, and the pharmaceutical industry), as companies in these sectors have not improved their performance, despite a recognition that they need to do so if economic growth and job quality are to improve (World Bank, 2013). These industries will also rely, to varying degrees, on relatively skilled employees, increasing the potential benefits of high-performance HRM practices (Boxall and Purcell, 2011).

We now review the literature on individual high-performance HRM practices and their associations with performance outcomes; we also evaluate their convergence/divergence with Islamic management philosophy. A critical element in high-performance HRM is employment security. It can influence reciprocity and mutuality at work as well as the psychological contract between employee and employer, leading to enhanced establishment performance (Pfeffer, 1998). Ali (2010) indicates that Islamic work values are founded on the principles of Eshan, or goodness and generosity in interaction and conduct at both a personal and organizational level (see also, Branine and Pollard, 2010). Sedakah, which signifies any sincere or beneficial deed, is associated with Eshan. According to this principle, employers should consider employees as humans above purely economic considerations. This suggests that employers should avoid redundancies as far as possible (Ali, 2010). This can occur either through a formal policy or an informal practice of avoiding lay-offs. However, the principle of Eshan guides rather than proscribes certain actions. Nepotism may also play a role in Pakistani establishments (Islam, 2005), leading to a desire to avoid redundancies whenever possible, but not, necessarily, aiding labour productivity. On the basis of the highperformance HRM literature, we hypothesize that:

H1: Establishments with policies of no compulsory redundancies will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

H2: Establishments that expect all employees to stay until retirement will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

Attracting and selecting high quality staff are central to the high-performance HRM model (Marchington and Wilkinson, 2008). They encourage the selection of employees from a wide pool of applicants (Guest et al., 2003) and the use of employment tests, such as skill and aptitude tests, prior to hiring to check the applicant's suitability (Guthrie et al., 2009), improving establishment performance. The recruitment of employees within an Islamic management system can only take place on the basis of competency, and individuals should not be appointed on the basis of race, colour, age, political power or blood relationships (Ali, 2010: 698; Hashim, 2010). However, collectivism, high power distance and high uncertainty avoidance may result in nepotistic workplace practices (Islam, 2005; Mangi et al., 2012) that differ significantly to high-performance HRM ones and that have a detrimental influence on establishment performance. We, therefore, propose that:

H3: Establishments with recruitment processes that generate as many good/qualified applicants as the establishment needs will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

H4: Establishments that conduct one or more employment tests prior to hiring will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

Extensive training, learning and development are crucial high-performance HRM practices (Pfeffer, 1998). Establishments that encourage employees to gain general skills, such as problem-solving and communication skills, as well as ones applicable in a variety of jobs can improve establishment performance (Collings et al., 2010). Islam encourages training and continuous development (Ali, 2010). The Islamic principle of Etqan requires people to struggle for self-improvement in order to do better work (Branine and Pollard, 2010), encouraging workers to learn new skills and be innovative and creative. Once again, the principles underpinning HPWS and Islamic HRM management appear to converge. However, cultural values of high power distance (Mangi et al., 2012) may lead to centralization (Islam, 2004) and an associated reduction in employee training and establishment performance. On this basis, we hypothesize that:

H5: Establishments that provide non-managerial employees with training in a variety of jobs or skills and/or routinely perform more than one job will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

H6: Establishments that provide non-managerial employees with intensive/extensive training in generic skills will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

Employee involvement and participation are essential components of the high performance paradigm (Marchington and Wilkinson, 2008) and will enhance establishment performance by increasing employee motivation (Birdi *et al.*, 2008). Shura or Consultation is the founding stone of Islamic Administration (Branine and Pollard, 2010), and Islam emphasizes co-operation and consultation in decision making (Abuznaid, 2006), potentially encouraging employee participation in Pakistani establishments (Mellahi and Budhwar, 2010;

Ramdani *et al.*, 2014). There is also, however, a tradition of paternalistic management and centralized decision making in Pakistani firms, leading to low employee autonomy and initiative (Iqbal, 2008). It should also be noted that trade unions operate under restrictive laws. Only 6.3 per cent of the non-agricultural workforce is unionized (Ghayur, 2009). We have, therefore, focused on direct voice rather than union voice. In line with the high-performance HRM literature, we hypothesize that:

H7: Establishments in which non-managerial employees are involved in programmes designed to elicit participation and employee input (e.g. quality circles, problem solving, or similar groups) will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

H8: Establishments that provide non-managerial employees with relevant strategic information will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

H9: Establishments that routinely conduct attitude surveys to correct employee morale problems will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

As part of high-performance HRM systems, establishments often implement 360-degree feedback policies (i.e. feedback from multiple stakeholders) to develop their employees, thereby helping to enhance establishment performance (Guest et al., 2003). The principles behind 360-degree feedback systems comply with Islamic thought: different sources were used to evaluate the performance of individuals in the early days of Islam (Ali, 2010). However, current employee-evaluation practices in many Muslim countries do not comply with these traditions, as they lack credibility and objectivity (Ali, 2010). Moreover,

Pakistan's cultural traits of high power distance (Mangi *et al.*, 2012) and high uncertainty avoidance (Islam, 2005) may inhibit senior managers' willingness to share authority with workers, limiting the use and efficacy of 360-degree feedback practices. Building on the high-performance HRM literature, we hypothesize that:

H10: Establishments that provide employees with formal feedback from more than one source will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

Performance-related pay (PRP) is an integral part of high-performance HR systems (Marchington and Wilkinson, 2008; Pfeffer, 1998), and is, in general, associated with better establishment outcomes (Guthrie et al., 2009). Islam equates hard work to spiritual fulfilment, and emphasizes adequate and reasonable financial rewards (Hashim, 2010). Islamic compensation systems seek to encourage appropriate behaviour; enhance commitment to the organization and wider societal objectives; and steer employees to do their best, while adhering to religious precepts (Ali, 2010). Performance-related pay is, therefore, consistent with Islamic principles. However, cultural characteristics, such as high power distance, may lead to nepotism (Islam, 2004) that, in turn, results in arbitrary and opaque pay schemes. Building on the high-performance HRM literature, we, therefore, hypothesize that:

H11: Establishments that allow non-managerial employees to participate in profit-sharing or share-ownership schemes will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

H12: Establishments that offer additional pay or a pay rise in the past year as a result of individual or collective job performance will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

The lack of many status differences between managers and lower-level employees is a pre-condition for the successful implementation of several high-performance HRM practices, such as team working and employee involvement, and encourages all employees to feel valued (Pfeffer, 1998). Such practices are, overall, associated with improved establishment performance (e.g. Wood and de Menezes, 1998). Islam encourages the fair treatment of everyone, irrespective of background or race (Ali, 2010). This implies the equal treatment of all workers, and the removal of many status differences at work. Once again, cultural values in Pakistan may push managers to adopt nepotistic and centralizing HR practices that favour some groups over others (Islam, 2004). We, therefore, propose that:

H13: Establishments with few status differences between managers and the rest of the employees will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

To satisfy the demands of their workforce, recruit high-quality employees and avoid problems of absenteeism, several employers have adopted *practices to promote work-life* balance as part of broader high-performance HRM policies. The existing evidence on the association between work-life balance practices and establishment performance is mixed (Beauregard and Henry, 2009). Islam encourages employees not to work beyond their capacity (Hashim, 2010). Moreover, the Islamic principles of Ehsan and Sedakah imply that employers should consider human aspects while designing their management practices (Ali,

2010). On the other hand, Pakistani culture often encourages nepotism and centralization (Islam, 2004), which is likely to limit practices to balance work with private lives to favoured groups. We, therefore, hypothesize that:

H14: Establishments that allow employees to take career breaks for child care, elder care and leisure activities will be associated with a) lower absenteeism rates, b) lower quit rates, and c) higher labour productivity.

Research Design and Methodology

The research investigated high-performance HR practices for non-managerial employees in Pakistani-owned establishments with 20 or more employees. One of the paper's authors collected the data using a structured, face-to-face questionnaire. The respondents were typically establishment general managers. The focus on establishments rather than the corporation as the unit of analysis resolves potential uncertainty surrounding variation in HR policies and outcomes across the company's workplaces (Tüselmann *et al.*, 2007). The reliance on single respondents to report HR practices may lead to non-measurement error (Gerhart, 2007). We checked for common method bias, using Harman's single factor test statistic and confirmatory factor analysis. The data do not suffer from common method bias. The respondents were, in many cases, not HR managers, increasing the validity of the research, as such managers are not predisposed to assess HR practices favourably (Gerhart *et al.*, 2000).

The research was conducted in 2010 in the four main metropolitan cities of Islamabad, Rawalpindi, Lahore and Karachi. The research focuses on three key sectors in Pakistan. They are banking, ICT, and the pharmaceutical industry. Establishments in all three sectors face increased competition, potentially increasing the desirability and efficacy of

high-performance HRM practices. Much of the industrial activity in Pakistan in the sampled sectors is organized in and around these cities and sectors. Out of a total population of 830 establishments in Pakistan in the sampled sectors, 261 participated in the research (response rate: 31.4%). This response rate compares well to related studies that typically have a response rate between 6 and 28 per cent (Becker and Huselid, 1998).

This study focuses on formal work within these three sectors. Employment in the informal economy represents around 73 per cent of all non-agricultural employment in Pakistan, one of the highest figures in the world (World Bank, 2013). The chosen sectors and workplaces do not, therefore, capture the complexity of the Pakistani economy. However, assessing HR practices of whatever description in the informal economy is likely to be difficult for a number of reasons. Most importantly, formal establishments are the more likely than informal ones to adopt 'meaningful' or codified HRM practices (Budhwar and Debrah, 2009). The informal economy is likely to be particularly relevant to the ICT sector, as free-lancers play a prominent role in this sector, and ICT free-lancers, either as individuals or as small firms, may not disclose their income in Pakistan for tax and personal-safety reasons (Baloch, 2014). It should, however, be noted that this study focuses on establishments with 20 or more employees. Thus, we do not seek to capture small firms or sole traders.

Dependent Variables

We asked senior establishment managers to provide their subjective opinions on HR practices and the performance of their workplace in terms of absenteeism, quits, and labour productivity. For absenteeism and labour turnover, respondents were asked to consult their records and/or relevant manager to aid validity and reliability. Labour productivity was captured using a five-point Likert scale adapted from the WERS 2004 survey and was later converted to a dichotomous scale to avoid infringing the minimum sufficiency requirements

of multivariate analysis (Field, 2009). Table 1 details the operationalization of these outcomes as well as the control variables.

XXX

Table 1 around here

XXX

We chose these employee-related dependent variables for three main reasons. First, they are more directly related to HR practices than are more 'remote' outcomes, such as profits, that can be influenced by a range of 'non-HRM' factors, including the establishment's institutional setting (Godard, 2004). Second, the HRM literature recognizes that worker-related outcomes are a central issue (Guest, 2011). Finally, even if HR practices do improve establishment profitability, they may not enhance employee well-being (Peccei, 2004), which is likely to be reflected in quits and absenteeism.

Independent Variables

As noted above, this study draws on Marchington and Wilkinson's (2008) and Pfeffer's (1998) framework to select a wide range of HR practices that are thought to shape establishment performance. Every item used in the current study was drawn from major US and UK studies (e.g. Becker and Huselid, 1998; Guest *et al.*, 2003; Guthrie *et al.*, 2009; Hoque, 1999; Huselid, 1995; Mackay and Boxall, 2007;), thus increasing the reliability and validity of the research. The HR practices were measured as dichotomous variables.

A standard set of control variables was included in the regressions (Guthrie *et al.*, 2009). In order to dichotomize the 'age', 'size', and 'proportion of the workforce who are non-management employees' variables, relevant arithmetic means were used.

Data Analysis

We used logistic regressions to examine the relationship between a single HR practice and the performance of local establishments in Pakistan. Each regression contained all of the control variables (but not the other HR practices). Logistic regressions are sensitive to high intercorrelations among predictor variables. However, running regressions for just one HR practice alongside the control variables eliminated any multicollinearity between the HR practices. Outliers, or those cases with standardized residual values above 3.3 or less than - 3.3 (Field, 2009), may affect logistic regressions. We excluded such cases from the analysis. In logistic regressions, the Hosmer-Lemeshow test indicates whether the model is a good fit for the data; the significance of the test statistic should be greater than .05. Cox and Snell R squared and Nagelkerke R squared measure the amount of variation in the dependent variable that is explained by the model (Field, 2009).

Results: Prevalence of HR Practices and Establishment Performance

Table 2 reveals the extent to which HR practices are adopted in the surveyed workplaces. A number of HR practices are common: more than 80 per cent of workplaces have policies to reduce status differences, have good recruitment practices, and provide non-managerial employees with relevant strategic information. The reduction in status differentials and the provision of strategic information indicate that many workplaces in Pakistan adopt an inclusive approach to their workforce. The majority of workplaces have implemented several other HR practices, including implicit job guarantees, training in generic skills, career breaks, and employment tests prior to hiring are commonplace. Indeed, 44 per cent of workplaces either provide training in a variety of jobs to their non-managerial employees and/or expect these employees to routinely perform more than one job, suggesting that employers do not

fear losing recently trained staff and that they are creating the necessary conditions for employees to contribute towards organizational development (cf. Khilji, 2002).

XXX

Table 2 about here

XXX

Establishment Performance

The results of the regression analysis are shown in Table 3. It shows the associations between individual high-performance practices and the range of performance outcomes after allowing for the influence of the control variables. In Table 3, cells in bold relate to a statistically significant HR practice and have Hosmer-Lemeshow scores that indicate the model fits the data well.

XXX

Table 3 about here

XXX

Absenteeism

Interestingly, there are only two HR practices that are statistically significant and that have a Hosmer-Lemeshow score that indicates that the model is appropriate for absenteeism. Those HR measures are 'non-managerial employees receive training in a variety of jobs or skills and/or routinely perform more than one job' and the 'establishment routinely conducts attitude surveys to correct employee morale problems'. Both are associated with lower levels of absenteeism and are statistically significant at the one-per-cent level. These HR policies are a more appropriate means to address absenteeism than practices that focus on eliciting

views on operational aspects of the establishment through, say, quality circles, as well as profit-sharing schemes that can enhance employee pay (Wood and de Menezes, 2008).

Only one other variable – the 'recruitment process generates as many good/qualified applicants as the establishment needs' – is statistically significant and associated with lower absenteeism; the model that it forms part of does not, however, fit the data well. This finding buttresses the view that the establishment is seen as an attractive place to work: people wish to work in the establishment and, once there, are less likely to be absent without good reason.

Quit Rates

The same two variables that are statistically significant and, when in combination with the control variables in a broader model, provide a good fit for the data for absenteeism also do so for quits. Both are associated with lower quit rates and are statistically significant at the one-per-cent level. Two more HR practices also meet those criteria and are linked to below-average employee-turnover rates. They are the 'recruitment process generates as many good/qualified applicants as the establishment needs' and 'one or more employment test is conducted prior to hiring'. The importance, once again, of the 'non-managerial employees receive training in a variety of jobs or skills and/or routinely perform more than one job' and the 'establishment routinely conducts attitude surveys to correct employee morale problems' variables underlines the robustness of the research: high levels of absenteeism and quits are likely to be influenced by similar factors (Allen and Tüselmann, 2009).

The other two variables that are statistically significantly associated with lower quits and are part of models that fit the data well (recruitment processes that generate sufficient numbers of appropriately skilled applicants and the use of employment tests prior to appointment) suggest that those establishments that meet these criteria are attractive places to work. Such workplaces are able to attract and retain employees who have the required skills

and who are well suited to the job and workplace. Establishments that are seen as less attractive places to work are unlikely to generate as many applications from suitably qualified individuals and may not be in a position to carry out employment tests to ensure compatibility (Combs *et al.*, 2006; cf. Wood and de Menezes, 1998).

Establishments that have a 'formal policy of no compulsory redundancy' are not more likely to be associated with lower quit rates than those workplaces without such a policy, indicating that employees do not remain at an establishment as a result of this measure (cf. Guest *et al.*, 2003; Wood and de Menezes, 2008). Other aspects of job security, such as the expectation that all employees will stay until retirement, are important elements of previous studies and can indicate the presence of internal labour markets (Hoque, 1999; Mackay and Boxall, 2007). Whilst this variable here is statistically significant and associated with lower quit rates, the broader model, of which it forms a part, is not a good fit for the data. These mixed findings tentatively indicate that such expectations encourage employees to stay with the establishment. Importantly, increased tenure can aid productivity, as will be shown below.

Other variables that are statistically significant, but that are part of models that do not fit the data well are: non-managerial employees 'receive intensive/extensive training in generic skills', 'are involved in programmes designed to elicit participation and employee input', 'are provided with relevant strategic information', 'receive formal feedback from more than one source (i.e. feedback from several individuals such as supervisors, peers etc.)', and 'participate in profit sharing or share ownership schemes'. They are all associated with lower quit rates. With the exception of the 'quality circle' variable, which is significant at the five-per-cent level, all of these practices are statistically significant at the one-per-cent level. Such policies may help to lower quit rates, but that association is weak when looked at as part of a broader model. The other HR practices are not statistically significant.

Labour productivity

Once again, the 'non-managerial employees receive training in a variety of jobs or skills and/ or routinely perform more than one job' and the 'establishment routinely conducts attitude surveys to correct employee morale problems' variables are statistically significant and part of models that provide a good fit for the labour-productivity data. Both are associated with higher levels of labour productivity and are statistically significant at the one-per-cent level. This supports the robustness of the research: establishments with lower levels of absenteeism and quits can be expected to have more productive staff. Training in itself can help to improve productivity and being skilled in more than one job can facilitate the provision of productivity-enhancing suggestions from employees (Ichniowski *et al.*, 1997; Hoque, 1999; Guthrie *et al.*, 2009). Providing workers with a voice can help to heighten efficiency (Godard, 2004).

Several other HR practices meet the criteria of being statistically significant and being part of models that provide a good fit for the data. They are 'the organization has a formal policy of no compulsory redundancy', 'the establishment expects all employees to stay till retirement', 'one or more employment test is conducted prior to hiring', 'non-managerial employees are provided with relevant strategic information', and 'there are few status differences in the establishment'. Having employees who remain with the workplace can aid labour productivity, especially if the skills that employees have are largely tacit (Allen, 2014; Koch and McGrath, 1996). Similarly, training in specific and generic skills may enhance employees' understanding of the tasks involved within the company and how their work relates to other activities, potentially helping to improve productivity (Combs *et al.*, 2006; Guthrie *et al.*, 2009; Ichniowski *et al.*, 1997; Wood and de Menezes, 2008). Systematic

selection and recruitment can also be expected to increase the likelihood that new recruits meet the job requirements (Combs *et al.*, 2006; Huselid, 1995; Koch and McGrath, 1996).

Most of these variables are statistically significant at the one-per-cent level. Two — 'the establishment has a formal policy of no compulsory redundancy' and 'non-managerial employees are provided with relevant strategic information' — are statistically significant at the ten-per-cent level. The former indicates that it is more important for the workplace to have the expectation that 'all employees will stay until retirement', which is statistically significant at the one-per-cent level, rather than having a formal 'no compulsory redundancy' policy. The result for the 'strategic information' variable tentatively suggests that increased establishment transparency and employees having an enhanced understanding of their roles can facilitate productivity increases. However, training and providing employees with a voice to express their opinions are more likely to be associated with higher productivity, as they are statistically significant at the one-per-cent level.

There are four HR practices that, individually, are statistically significant, but that are not part of models that provide a good fit for the data. They are non-managerial employees 'are involved in programmes designed to elicit participation and employee input', 'receive formal feedback from more than one source', 'participate in profit-sharing or share-ownership schemes', 'the establishment allows career breaks to employees for child care, elder care and leisure activities'. With the exception of the 'profit-sharing' practice, which is statistically significant at the five-per-cent level, all are significant at the one-per-cent level. The findings for the 'receive formal feedback' practice reflects the mixed results found in previous studies (Guest *et al.*, 2003; Guthrie *et al.*, 2009; Huselid, 1995; cf. Combs *et al.*, 2006; Wood and de Menezes, 2008).

Discussion and Conclusion

This study has drawn on the, to date, most comprehensive survey of high-performance HR practices and outcomes in Pakistani workplaces. Several high-performance HR practices are common amongst the surveyed establishments: more than 80 per cent of workplaces have policies to reduce status differences, have good recruitment practices, and provide non-managerial employees with relevant strategic information. More than half of those workplaces analysed had implemented several other HR practices. Implicit job guarantees, training in generic skills, career breaks, and employment tests prior to hiring are commonplace. This evidence suggests that, in general, Pakistani establishments in the three sectors examined here have adopted HRM practices that conform to models based on high-performance HRM paradigms and Islamic principles, such as *Ehsan* and *Sedakah* that emphasize equal treatment and a consideration of human aspects while designing work practices.

The other practices examined here are less frequently adopted, although all of the individual practices were adopted by least one third of all establishments. So, for instance, around four out of every ten surveyed establishments have performance-related pay, seek the opinions of their employees to improve morale, and implement 360-degree feedback policies, indicating the potential for cultural traits, such as high power distance, to influence the prevalence of important high-performance HRM practices.

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The anticipated benefits, from a universalistic perspective, are not always present for most high-performance practices. The research did confirm two of the hypotheses: H5 and H9 on the provision of training to non-managerial employees so that they can carry out a variety of jobs and the regular use of surveys to improve employee morale) are consistently associated with better outcomes on all three measured examined here (absenteeism, quits, and labour productivity). Approximately a half of the other hypotheses received some support:

the association between the HR practice and at least one of the outcomes, most frequently labour productivity, was statistically significant and the model that the practice formed part of provided a good fit for the data. Overall, then, the findings provide limited support for the view that high-performance HRM practices are associated with better establishment outcomes in Pakistan. Such practices and outcomes also conform to Islamic views of HRM, but contradict those that prioritize cultural factors.

However, cultural values cannot be discounted entirely. As the analyzed models often do not fit the data well, cultural traits may affect the implementation of HRM practices. For instance, high power distance may not prevent the use of profit-sharing schemes in Pakistani establishments. Such schemes appear to have the desired effect, as they are statistically significantly associated with lower quits and higher labour productivity. Cultural traits may, though, inhibit managers' willingness to see lower-level employees gain substantially from such schemes, thus, reducing the overall impact of them and helping to explain why the overall model that includes profit sharing and the control variables does not fit the data well. Similarly, nepotism may influence how establishments implement performance-related pay, resulting in statistically non-significant links between that practice and the outcomes examined here. Future research, not just that on Pakistani establishments but studies of workplaces in countries with Muslim majorities, could, therefore, seek to examine how cultural traits influence the implementation of particular HRM practices and, hence, shape establishment performance. In a broad sense, high-performance HRM practices may look similar in many countries, but their peculiarities may vary greatly and have important implications for any associated benefits.

Our questionnaire relied solely on the responses and views of managers to examine the links between HRM and performance. This, potentially, introduces a unitaristic bias into our results, leading to too great an emphasis on 'good' HRM practices, such as the reduction in status differentials and the provision of strategic information to employees, and their benefits. Lower-level employees may have a very different view of HRM and associated outcomes within their establishment (Guest, 2011). Future research could, therefore, analyse the perspective of lower-level employees to deepen yet further our knowledge of HRM and establishment outcomes. Importantly, future studies could assess how the HRM practices examined here influence work intensification, work-life balance, and workplace stress amongst different groups of employees in Pakistan, a country characterized by high power distance and high uncertainty avoidance that may influence how HRM polices are actually implemented and experienced (for a related study, see Mackay and Boxall, 2008).

Future research could also examine the reasons why certain establishments in Pakistan adopt these high-performance HR practices and benefit from them, whilst others do not. Studies could, for instance, examine the specific industry contexts, firm strategies, and institutional settings of workplaces (Allen, 2014). In general, establishments in sectors that are marked by competition on quality rather than price are likely to pursue strategies that are contingent upon highly skilled employees who are difficult to replace; they can be expected to adopt HR practices that encourage their participation and enhance their satisfaction (Allen, 2014). Amongst firms in the same industry, but different market segments, company and HRM strategies will vary (Boxall, 2003); within a particular establishment, HR practices can differ for various employee groups, depending on their value to the firm and the uniqueness of their skills (Guest, 2011). Incorporating firm and HRM strategies as well as industry contexts and a range of firm variables, such as life-cycle stage, into the analysis would provide a deeper understanding of the HRM practices associated with different employee groups (core and periphery workers) in Pakistani establishments within and across different industries. Similarly, institutions shape HR practices and outcomes (Allen, 2014; Demirbag et

al., 2014). The prevalence of family-owned firms characterizes some institutional environments, including Pakistan's, potentially facilitating longer-term strategies amongst companies and higher investments in employees' firm-specific skills (Breton-Miller and Miller, 2006).

Despite these limitations, this research has helped to fill an important gap in the literature by providing much information on both the extent of particular HR practices in Pakistan and their associations with workplace-related outcomes. Pakistan is often overlooked in studies of HRM in emerging economies. Yet workplaces in Pakistan, as this research has shown, can gain from the use of certain high-performance HR practices. This is not just a concern for owners and managers within those establishments, but for employees, too. The latter group's working conditions may be better in workplaces with higher performance levels. In addition, by encouraging workplaces to adopt certain HR practices, the Government of Pakistan may be able to help the country achieve its overall economic objectives.

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Table 1 Operationalization of Dependent and Control Variables

Measure	Measure Question						
Dependent Variat	bles	1					
Absenteeism	Over the last 12 months approximately what percentage of working days was lost through employee sickness or absence without permission? Adapted from WERS 2004						
Quit rate	During the last 12 months approximately what percentage of non-managerial employees in this establishment left or resigned voluntarily? Adapted from WERS 2004 and Tüselmann <i>et al.</i> (2007).	Establishments with above- average quit rates = 1; below average = 0					
Labour productivity	How would you assess your establishment's current labour productivity compared with other establishments in the same industry? Adapted from WERS 2004 and Tüselmann <i>et al.</i> (2007).	Establishments with above- average productivity = 1; average or below average 0					
Control Variables							
Industry	What is the main nature of the business at this establishment?	0 = manufacturing; 1 = services					
Age	How long has your establishment been working in Pakistan?	0 = 10 years or fewer; 1 = 11 or more years					
Size	What is the number of employees at this establishment?	0 = 93 or fewer; 1 = 94 or more					
Non-managerial employees	What proportion of your workforce is made up of non-managerial employees?	0 = less than 83 per cent; 1 = more than 83.01 per cent					

<u>Table 2 Descriptive Statistics</u>

HR Practice	Per cent Yes/Agree
The organization has a formal policy of no compulsory redundancy	33%
The establishment expects all employees to stay till retirement	72%
Recruitment process generates as many good/qualified applicants as the establishment needs	88%
One or more employment tests are conducted prior to hiring	54%
Non-managerial employees receive training in a variety of jobs or skills and/or routinely perform more than one job	44%
Non-managerial employees receive intensive/extensive training in generic skills	62%
Non-managerial employees are involved in programmes designed to elicit participation and employee input (e.g.	46%
quality circles, problem solving, similar groups)	
Non-managerial employees are provided with relevant strategic information	90%
Workplace routinely conducts attitude surveys to correct employee morale problems	38%
Employees receive formal feedback from more than one source (i.e. feedback from several individuals such as	40%
supervisors, peers etc.)	
Non-managerial employees participate in profit-sharing or share-ownership schemes	39%
Offered additional pay or offered pay rise in past year as result of job performance or work in a team	37%
There are few status differences in the establishment between managers and the rest of the employees	82%
The establishment allows career breaks to employees for child care, elder care and leisure activities	58%

Note: N = 261.

<u>Table 3 HR Practices and Establishment Outcomes</u>

		Abse	enteeism	1			Labour Productivity								
HR Practice	B Values	Odds	H-L	C&S	Nagel	B Values	Odds	H-L	C&S	Nagel	B Values	Odds	H-L	C&S	Nagel
		ratio		R^2	R^2		ratio		\mathbb{R}^2	R^2		ratio		\mathbb{R}^2	R^2
The organization has a	342	.710	.001	.096	.131	.243	1.275	.060	.160	.213	571*	.565	.068	.218	.291
formal policy of no															
compulsory															
redundancy															
The establishment	407	.665	.027	.097	.133	-2.435***	.088	.008	.301	.402	1.274***	3.54	.052	.256	.342
expects all employees															
to stay till retirement															
Recruitment process	-1.179***	.307	.012	.123	.169	-1.455***	.233	.439	.232	.310	.729	2.073	.026	.223	.297
generates as many															
good/qualified															
applicants as the															
establishment needs															
One or more	110	.896	.000	.091	.125	-1.041***	.353	.471	.224	.300	1.064***	2.898	.089	.243	.324
employment tests are															
conducted prior to															
hiring															
Non-managerial	777***	.460	.205	.117	.160	1.631***	.196	.260	.253	.338	.930***	2.534	.074	.239	.318
employees receive															
training in a variety															
of jobs or skills and/															
or routinely perform															
more than one job															
Non-managerial	386	.679	.037	.098	.134	-1.906***	.149	.008	.298	.397	1.219***	3.385	.567	.256	.342
employees receive															
intensive/extensive															
training in generic															
skills															

		Abse	enteeism	1			(Quits		Labour Productivity					
HR Practice	B Values	Odds	H-L	C&S	Nagel	B Values	Odds	H-L	C&S	Nagel	B Values	Odds	H-L	C&S	Nagel
		ratio		R^2	R^2		ratio		\mathbb{R}^2	R^2		ratio		\mathbb{R}^2	R^2
Non-managerial	.009	1.009	.004	.091	.124	-1.041**	.535	.006	.189	.252	.788***	2.198	.000	.234	.312
employees are															
involved in															
programmes designed															
to elicit participation															
and employee input															
(e.g. quality circles,															
problem solving,															
similar groups)															
Non-managerial	336	.714	.014	.085	.116	-1.548***	.213	.023	.176	.235	1.027*	2.792	.175	.224	.298
employees are															
provided with relevant															
strategic information															
Workplace routinely	-1.128***	.324	.064	.143	.197	-2.325***	.098	.110	.326	.436	1.267***	3.551	.094	.259	.346
conducts attitude															
surveys to correct															
employee morale															
problems															
Employees receive	354	.702	.026	.097	.133	-1.055***	.348	.002	.199	.266	1.134***	3.108	.011	.341	.455
formal feedback from															
more than one source															
(i.e. feedback from															
several individuals															
such as supervisors,															
peers etc.															

		Abse	enteeism	1				Labour Productivity							
HR Practice	B Values	Odds	H-L	C&S	Nagel P ²	B Values	Odds	H-L	C&S R ²	Nagel P ²	B Values	Odds	H-L	C&S R ²	Nagel P ²
		ratio		\mathbb{R}^2	\mathbb{R}^2		ratio			\mathbf{R}^2		ratio			\mathbb{R}^2
Non-managerial	155	.594	.036	.085	.116	-1.455***	.233	.010	.246	.328	.621**	1.861	.008	.210	.281
employees participate															
in profit sharing or															
share ownership															
schemes															
Offered additional pay	.112	1.118	.001	.092	.126	316	.729	.041	.181	.241	.417	1.517	.009	.214	.286
or offered pay rise in															
past year as result of															
job performance or															
work in a team															
There are few status	.709	2.031	.036	.095	.130	375	.687	.005	.151	.201	1.062***	2.893	.063	.221	.294
differences in the															
establishment between															
managers and the rest															
of the employees															
The establishment	.296	1.345	.004	.095	.131	180	.835	.012	.159	.212	.887***	2.427	.001	.302	.403
allows career breaks															
to employees for child															
care, elder care and															
leisure activities															

Notes: N = 261; *** statistical significance at the one-per-cent level; ** at the five-per-cent level; * at the ten-per-cent level; H-L = Hosmer and Lemeshow test statistic's significance; C&S = Cox &Snell R squared; Nagel = Nagelkerke R squared