



**The effect of mergers and acquisitions on employees:
wealth transfer, gain-sharing, or pain-sharing?**

Journal:	<i>British Journal of Management</i>
Manuscript ID	BJM-18-041.R4
Manuscript Type:	Original Article
Keywords:	mergers and acquisitions, shareholders, labour, wealth-sharing
Primary Special Interest Group (SIG):	Corporate Governance
Secondary Special Interest Group (SIG):	Human Resource Management

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The Effect of Mergers and Acquisitions on Employees: Wealth Transfer, Gain-Sharing or Pain-Sharing?

Abstract

This paper considers whether gains made by shareholders from corporate takeovers are achieved at the expense of employees, as proposed by the 'wealth transfer' perspective. It analyses the contribution of employee lay-offs, along with employment and wage changes, to the takeover premium and abnormal share price movements. The analysis draws on a unique dataset of British takeovers, combining documentary, share price and accounting data. The results show that lay-offs planned at the takeover have either no effect or adverse effects on shareholder returns. Wages growth is positively, not inversely, related to shareholder returns from the second year after the takeover, whilst positive employment changes have a similar effect in the following year. Closer scrutiny indicates that labour and shareholders share gains when the firm does well, but share pain when it does not. There is evidence, therefore, that labour and shareholder interests can be complementary, rather than antagonistic, after takeovers.

Key words: mergers and acquisitions, shareholders, labour, wealth sharing

Introduction

A long-standing claim in some quarters is that mergers and acquisitions (M&A) benefit shareholders at the expense of workers. The ‘breach of trust’ or ‘wealth transfer’ perspective, advanced by Shleifer and Summers (1988), proposes that corporate ownership transactions enable shareholders to renege on implicit contracts between managers and employees, thereby facilitating transfer of wealth from employees to shareholders. Its theoretical under-pinning is the view in transaction cost economics that employment contracts are inevitably incomplete, and that mutual understandings are required between the contracting parties to secure efficient outcomes. Takeovers threaten these understandings and enable shareholders to capture wealth from employees. Agency theory also highlights the role of takeovers in enabling shareholders to reduce agency costs by enhancing monitoring of company managers (Maksimovic *et al.*, 2011).

The context to the ‘breach of trust’ perspective was large-scale hostile takeover activity (the leveraged buy-out boom) during which corporate ‘raiders’ aimed to deliver substantial returns to shareholders by dismembering, restructuring and downsizing acquired firms. Although this wave of takeovers has passed, it continues to be widely believed, especially amongst trade unions and left-wing politicians, that shareholders benefit at labour’s expense during and after corporate takeovers. Employee lay-offs in the immediate aftermath of public takeovers, as in Kraft’s controversial takeover of Cadbury in 2012, do little to allay this belief (Mayer, 2013). In this instance, Kraft closed a factory with the loss of 400 jobs despite a pre-takeover undertaking not to do so. Further jobs were shed in other locations shortly after the takeover.

Research on the impact of M&A events on employees is long-standing (Cartwright and Cooper, 1990; Khan *et al.*, 2017; Brueller *et al.*, 2018), with evidence of reductions in labour

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3 demand and employment after such transactions (Conyon *et al.*, 2002; Amess *et al.*, 2014;
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5 Dessaint *et al.*, 2017). What is less clear is whether the losses suffered by labour benefit
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7 shareholders, such that a ‘wealth transfer’ can be said to have occurred, especially as the
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9 overwhelming evidence is that shareholders of acquiring firms do not benefit from takeovers
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11 (Datta *et al.*, 1992; King *et al.*, 2004). There is of course substantial evidence, often derived
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13 from in-depth case studies, that takeovers can have harmful, indeed terminal, effects for
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15 companies, because breach of implicit contracts weakens employee trust (Buono and
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17 Bowditch, 1989; Haspeslagh and Jemison, 1991) and dissipates valuable human capital (Zollo
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19 and Meier, 2008; Cording *et al.*, 2014). It is less clear, however, whether adverse impacts on
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21 labour, such as lay-offs and employment reductions, are systematically related to shareholder
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23 gains or losses. One study so far has directly evaluated the ‘wealth transfer’ perspective, finding
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25 no relationship between job cuts and bid-premia, and that labour and shareholders experience
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27 ‘equal misery’ after takeovers (Beckmann and Forbes, 2004). This study drew on a small
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29 sample and utilised data from some time ago (late 1980s/early 1990s).
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37 Our paper presents new evidence on this issue by empirically analysing whether
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39 planned lay-offs, actual lay-offs, employment and wage changes post-merger are associated
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41 with shareholders’ returns, either in the short-term, as measured by the acquisition premium
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43 and Cumulative Abnormal Returns (CAR), or the longer term, as measured by Buy-and-Hold
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45 Abnormal Returns (BHAR). Since takeovers can destroy shareholder value, we consider
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47 whether the relationships with labour changes vary according to whether shareholder gains are
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49 positive or negative. The data source is a unique dataset of takeovers across a range of
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51 industries in the British listed sector occurring over a twenty-one year period, in which
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53 documentary, stock market and accounting data for five financial years (one year before and
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55 three years after the takeover completion year) are matched with non-merging control firms.
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3 The results are not supportive of the ‘wealth transfer’ perspective. Takeover-related
4 lay-off announcements are not significantly associated with the takeover premium and CAR
5 secured by target shareholders. In contrast, such lay-off announcements have a negative, rather
6 than positive, relationship with acquirer shareholders’ short-run gains. Post-takeover lay-offs
7 also have insignificant relationships with BHAR. Employment and wage changes are either not
8 related, or positively (not inversely) related with BHAR. Segmentation of the sample according
9 to whether BHAR are positive or negative finds that, for the most part, labour and shareholders
10 are ‘pain-sharing’ rather than ‘gain-sharing’. Employment reductions are associated with
11 negative BHAR, but wages growth is associated with positive BHAR.
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25 Our results, therefore, question the ‘wealth transfer’ perspective on takeovers. More
26 generally, they provide a critique of those perspectives that view ‘shareholder value’ as being
27 achieved at labour’s expense (Lazonick and O’Sullivan, 2000). Instead, our findings suggest
28 that labour and shareholders’ interests can be complementary rather than antagonistic after
29 takeovers. They are consistent with theoretical perspectives emphasising the importance of
30 human capital resources for organisational performance, such as the resource-based view of
31 the firm (Barney, 1991). A particular contribution of the paper is that it shows that the
32 complementarity of interests functions when the firm is doing well or badly, but that there is
33 an asymmetry of wages and employment in this respect. Employment reductions are associated
34 with shareholders receiving negative abnormal returns, whilst wages growth is found when
35 there are positive returns. This finding is consistent with long-standing views on ‘wage
36 stickiness’ (i.e. that employment rather than wages tends to adjust downwards in response to
37 adverse economic circumstances) (Blinder and Choi, 1990), whilst insiders tend to capture the
38 benefits when times are good (Lindbeck and Snower, 1989).
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3 The paper proceeds by reviewing the relevant literature and developing hypotheses.
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5 The data source and key variables are then outlined before results are presented.
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10 11 12 **Takeovers and labour: background** 13

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15 Shleifer and Summers (1988) advanced the ‘breach of trust’ perspective to explain what
16 happens after takeovers. Contrary to the view that takeovers create wealth, they argued that
17 gains for shareholders are substantially derived from wealth transfers from labour and other
18 stakeholders. Drawing on transaction cost theory (Williamson, 1985, 1988), the basis of their
19 argument is that contracts between firms and employees are partly implicit or incomplete
20 because of the costs of writing and enforcing complete contracts. Workers and managers share
21 informal understandings such as workers having long-term employment, perhaps even ‘jobs
22 for life’. Trust is essential if workers and managers are to abide by these implicit contracts
23 (Cording *et al.*, 2014) and if workers are to invest in relationship-specific human capital.
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37 Those mounting takeovers are not usually bound by these implicit contracts and may
38 opportunistically break them to capture some of the rents hitherto secured by labour.
39 Replacement of incumbent managers in target companies removes one party to the implicit
40 contracts (Bhagat *et al.*, 1990; Conyon *et al.*, 2001), with a series of studies finding extensive
41 replacement of target executives after takeovers (Walsh, 1988; Cannella and Hambrick, 1993;
42 Graebner, 2004; Cording *et al.*, 2014). The key implication is that gains to shareholders come
43 from wealth concessions by other stakeholders (Deakin *et al.*, 2003).
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54 The ‘wealth transfer’ perspective also draws on principal-agent theories of the firm,
55 corporate governance and managerial action (Jensen and Meckling, 1976). Labour and
56 shareholder interests are viewed as competing, with both parties seeking to capture rents.
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3 Shareholders bear the agency costs of management-worker deals that provide rents for labour,
4 especially if managers exploit their relationships with labour to benefit from a 'quiet life'
5 themselves (Pendleton *et al.*, 2017). Takeovers enable new shareholders or managers to reduce
6 agency costs by extensive restructuring (Maksimovic *et al.*, 2011), including replacement of
7 incumbent management and employee lay-offs. Equally, takeovers may arise from principal-
8 agent problems in the acquiring firms. Managers may engage in takeovers for self-serving
9 reasons, such as 'empire-building' (Jensen, 1986) or hubris (Roll, 1986). Since these takeovers
10 rarely benefit shareholders (Moeller *et al.*, 2005), the argument is that labour will suffer from
11 ill-judged transactions. Labour pays for others' mistakes.
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25 Alternative theoretical perspectives suggest that shareholders suffer after takeovers
26 because labour suffers. The resource-based view of the firm (Barney, 1991) implies that
27 takeovers can damage unique capabilities derived from human and social capital because
28 valuable employees leave the firm due to uncertainty over integration and future prospects
29 (Coff, 1997, 2002; Somaya *et al.*, 2008; Younge *et al.*, 2015). The firm may lose valuable tacit
30 knowledge (Dixon, 2000; Zollo and Singh, 2004). If acquirers do not re-establish trust after
31 transactions, takeovers may result in lower employee satisfaction (Birkinshaw *et al.*, 2000),
32 lower employee commitment (Schweizer and Patzelt, 2012), higher employee turnover (Mayer
33 and Kenney, 2004) and poorer organizational integration (Cording *et al.*, 2014), all of which
34 can have a negative impact on organisational performance. Another perspective suggests that
35 shareholders come out worse than labour. It is argued that, during the uncertainty of the
36 integration process, workers and managers are able to exploit their superior information as
37 insiders to protect their access to rents, with shareholders bearing the costs of this (Meyer,
38 2008).
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3 Given these opposing perspectives, what is the evidence on the consequences of
4 takeovers for labour and shareholders? Focusing on labour first, there is a sizeable volume of
5 evidence that labour does badly after takeovers, suggesting that implicit contracts are broken
6 by new owners. Studies in the UK, US, and Europe show that employment typically declines
7 by 10-20% after takeovers (Lichtenberg and Siegel, 1990; Lehto and Bockerman, 2008; Amess
8 *et al.*, 2014; Dessaint *et al.*, 2017; Geurts and Biesebroeck, 2017). Firms involved in M&A
9 often adopt tougher labour management policies (Goergen *et al.*, 2013) and such transactions
10 often reduce their demand for labour (Conyon *et al.*, 2001, 2002, 2004; Gugler and Yurtoglu,
11 2004). These changes are typically attributed to restructuring to eliminate duplication and
12 surplus capacity (Maksimovic *et al.*, 2011). Employment decline may also arise from higher
13 staff turnover (Cannella and Hambrick, 1993; Cording *et al.*, 2008, Cording *et al.*, 2014). But
14 the evidence is not all negative for labour: a recent British study finds growth in employment
15 after takeovers in around half of cases (Kuvandikov *et al.*, 2014). There is also some evidence
16 of wage increases following acquisitions (Beckmann and Forbes, 2004; Conyon *et al.*, 2004;
17 Siegel and Simmons, 2010; Amess *et al.*, 2014).

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39 One group of shareholders clearly benefits from takeovers – the shareholders of the
40 acquired firm. They typically receive a takeover premium of 35-40% (Franks and Mayer, 1996;
41 Hayward and Hambrick, 1997; Sirower, 1997; Laamanen, 2007), after a run-up in share price
42 prior to the takeover announcement (Martynova and Renneboog, 2011). Given the subsequent
43 performance of post-takeover firms, the shareholders of acquiring firms often over-pay target
44 shareholders (Sirower, 1997). Does labour bear the costs of this? There is some evidence that
45 it might. Bhagat *et al.*, (1990) report that cost savings from lay-offs cover around 10-20% of
46 the takeover premium, whilst Krishnan *et al.*, (2007) argue that managers in acquiring firms
47 make lay-offs to recover the costs of high takeover premia. We therefore propose the following
48 hypothesis:
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3 *H1.* There is a positive relationship between merger-related employee lay-off
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announcements and shareholders' short-run gains at takeover announcements.

On the whole, shareholders of post-takeover firms tend not to benefit much from takeovers. The performance effects of takeovers are typically minimal or negative, whether the metric is the accounting or financial performance of the post-acquisition entity (Cartwright and Schoenberg, 2006). Higson and Elliott (1998) found that acquirers secured zero abnormal returns in the three years after takeovers. Subsequently, Sudarsanam and Mahate (2006), Cosh *et al.*, (2006) and Dargenidou *et al.*, (2016) reported that, on average, abnormal returns are negative during the three years after takeovers. Looking wider than the UK, meta-analyses of takeover outcomes find that both financial and stock market returns are typically zero or mildly negative (Datta *et al.*, 1992; King *et al.*, 2004). The failure of many takeovers is typically attributed to the costs of integration, especially those arising from differences in organizational cultures and management styles between the merging entities along with loss of human and social capital (Datta and Grant, 1990; Datta, 1991; Chatterjee *et al.*, 1992; Pablo, 1994; Teerikangas and Very, 2006; Stahl and Voigt, 2008; Bauer and Matzler, 2014).

The relationship between long-run shareholder abnormal returns and labour may vary according to whether these returns are positive or negative. Where abnormal returns are negative, the 'wealth transfer' perspective predicts that labour bears the costs. By contrast, where shareholders achieve positive returns, the 'wealth transfer' perspective argues that this is likely to be achieved at labour's expense in the form of cuts to employment or wages/wages growth. Other evidence suggests that employment cuts are more likely than wages reductions because of 'wage stickiness' (Blinder and Choi, 1990) and contractual difficulties in reducing wages. Furthermore, wage growth may occur as a concession for reducing employment

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3 ('concession bargaining'). Nevertheless, drawing on the 'wealth transfer' view, we test the
4 relationship between shareholders' long-run abnormal returns and labour changes with the
5 following hypothesis:
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11 *H2: There is a positive relationship between post-merger workforce reductions and/or*
12 *wages cuts and shareholders' long-run gains during the post-takeover period.*
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20 **Research methods**

21 *Sample*

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24 To test these hypotheses, we analyse whether losses for labour (lay-offs, employment
25 reductions and wage changes) are associated with returns to shareholders' using data on
26 domestic takeovers within the UK listed sector 1990-2010. During the period there were 1088
27 full takeovers (where acquirers secured more than 50% of target company equity) of UK listed
28 companies by other companies listed on the London Stock Exchange. As is common in the
29 literature (Martynova and Renneboog, 2011; Dargenidou *et al.*, 2016), we exclude takeovers
30 involving property, financial (banks, investment trusts, exchange-traded funds, etc.), and utility
31 companies, because these firms have different asset characteristics, reporting requirements, or
32 regulatory regimes to other listed companies (387 cases). This leaves us with 701 transactions.
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34 Of these, we selected 376 (54% of the total), after removing 325 cases where acquirers
35 conducted multiple acquisitions within three years of the observed takeover. This selection
36 procedure means that observed employment and wages changes are not contaminated by the
37 effects of other transactions. Our final sample is similar to other recent studies of UK takeovers
38 (Dargenidou *et al.*, 2016; Mira *et al.*, 2018).
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Transaction data were collected from *Thomson Reuters*. These data included M&A announcement dates, completion dates, premiums, deal mode, payment type and competing bidders. Market and accounting data for one financial year before and three financial years after the takeover year (i.e. up to 2014) were retrieved from *DataStream* and *PI Filing Expert*. Documentary material on lay-offs, takeover motives and post-takeover divestments were obtained from the *Financial Times*. Similar market and accounting data were also collected for control companies used in the generation of some of the variables (see below).

Variables

Shareholders' gains from takeovers are typically viewed as the difference between the share price or share returns and what they may have been had the takeover not occurred or what was achieved by otherwise similar firms at the same time. *Premium* captures the gains at takeover for target company shareholders, computed as the percentage difference between the purchase price and the market price of the target firm shares 30 days before the first announcement of the takeover, divided by the latter price (Hayward and Hambrick, 1997). This widely-used measure does not take account of movements in the market, and hence does not fully isolate the effects of the takeover. A better measure is Cumulative Abnormal Returns (CAR). This provides a measure of actual returns relative to what may have been expected in the absence of the takeover event. We compute *Acquirer (Target) CAR* over a three-day event window (one day either side of the takeover announcement date), using the market model (Brown and Warner, 1985). We estimate the market model parameters using daily share price returns from trading between day -300 and day -42 before the takeover announcement and using the contemporaneous *DataStream* Total Returns Index as the market portfolio. This period is judged to be both sufficiently lengthy and distant from the takeover to provide parameters that are unlikely to be contaminated by takeover speculation and follows similar practice in the

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3 literature (e.g. Goergen and Renneboog, 2004; Schoenberg, 2006; Bethel *et al.*, 2009;
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5 Papadakis and Thanos, 2010; Martynova and Renneboog, 2011).
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9 A longer-run measure of shareholder gains from the takeover event is *BHAR*. This
10 isolates the stock price effect of the takeover by comparing the stock price return of the acquirer
11 against an otherwise similar control firm at selected time points after the event. Actual returns
12 can thereby be compared against expected returns in the absence of the takeover. To calculate
13 *BHAR*, control firms are selected based on industry, size, profitability and non-involvement in
14 takeovers for three years either side of the takeover (Barber and Lyon, 1996; Cosh *et al.*, 2006).
15 *BHAR* are calculated for 12, 24 and 36 months after the M&A completion.
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26 The key independent variables — employee lay-offs, employment change and wages
27 change — measure what happens to labour after the takeover. Lay-off announcements may
28 impact stock price movements because they signal that acquirers will take a robust approach
29 to labour management in the interests of shareholders (Cascio *et al.*, 1997) or that there will be
30 challenging times ahead (Cascio, 2002; Datta *et al.*, 2010). Two lay-off variables are derived
31 from searches of the national press around and after the M&A announcement date
32 (O'Shaughnessy and Flanagan, 1998; Krishnan *et al.*, 2007). *Planned lay-offs* is a dummy
33 variable recording whether acquirers announce plans to lay-off workers after the takeover (22%
34 of takeovers). This might have a positive or negative influence on the takeover *Premium* and
35 *CAR* for the reasons mentioned above. The second (*Lay-offs*) records whether employee lay-
36 offs occurred (44% of cases) up to the end of the first full financial year and may be predicted
37 to impact *BHAR*.
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54 Employee lay-offs are not necessarily inconsistent with more positive developments for
55 labour since new hires may counteract lay-offs. We therefore use a measure of employment
56 change post-takeover by subtracting combined employment of acquirer and target firms pre-
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3 takeover from the employment of the acquirer firm during the first (third) post-takeover year
4 and then dividing this difference by the average of pre- and post-takeover employment (Davis
5 *et al.*, 2014). This creates *EmpchangeYr1* (*EmpchangeYr3*) in the first (third) year post-
6 takeover and we analyse whether these have any association with post-takeover stock returns
7 (*BHAR*). It is also important to record changes in wages, since firms may either seek to reduce
8 wages after the takeover (as in the ‘breach of trust’ model) or labour may be able to capture
9 rents, possibly in compensation for lay-offs or other employment changes. *WagechangeYr1*
10 (*WagechangeYr3*) is created using the same method as employment change after computing
11 average wages by dividing annual total staff costs (converted into 2013 values using the
12 Consumer Price Index) by annual average employment.
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27 There are likely to be various other influences on the magnitude of M&A-related share
28 price returns. These include shareholder power (Bethel and Liebeskind, 1993), features of the
29 takeover transaction, the objectives and types of takeovers (Walsh, 1988; Walter and Barney,
30 1990) and the financial (accounting) performance of the merging firms (Cording *et al.*, 2010).
31 It is important, therefore, to control for these, and this lies behind our selection of control
32 variables.
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42 Shareholder power may influence the capacity of shareholders to secure high premia,
43 CAR and BHAR. Where shareholders hold larger equity stakes, their incentives to monitor are
44 greater (Bethel and Liebeskind, 1993). The combined block-holdings (all those of 3% equity
45 or more) for institutional and individual shareholders are used to control for shareholder power
46 (*Cumming et al.*, 2018)ⁱ. *Target (Acquirer) institutional ownership* and *Target (Acquirer)*
47 *individual ownership* at the end of the last pre-takeover fiscal year are controls in the premia
48 and CAR estimations. Post-takeover *Institutional ownership* and *Individual ownership* at the
49 end of the financial year in which the transaction is completed are used in the BHAR
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3 regressions. On average, institutional investors hold 25 (29)% of the acquirer (target), whilst
4 individual investors hold 8 (15)% respectively just before the takeover. Institutional investors
5 continue to have a similar level of ownership post-transaction but individual ownership
6 declines.
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14 Contingent features of the transaction may impact on shareholder returns. *Hostile*
15 takeovers are those where an initial bid was rejected by the target firm management (Denis,
16 1994; Franks and Mayer, 1996). Mode of payment can be important: cash transactions usually
17 have a positive effect on shareholder returns (Datta *et al.*, 1992; King *et al.*, 2004), possibly
18 because of tax benefits (Wansley *et al.*, 1983) or a lower dilutive effect on shareholders, though
19 there may be an adverse selection effect (cash-rich firms may make bad acquisitions due to
20 higher agency costs, as in Harford (1999)). *All-cash payment* is a dummy variable for cash
21 deals. As the number of competing bidders is likely to increase the premium, we control for
22 this with a dummy *Competing bidders* (Hayward and Hambrick, 1997).
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35 Since shareholder returns are known to vary by size of acquirer (Moeller *et al.*, 2005),
36 we control for *Target (Acquirer) size* based on market capitalisation. We also control for
37 *Relative employment size* (the ratio of acquired firm employment to that of the acquiring firm
38 in the year prior to the takeover) as this may affect the capacity of the acquirer to successfully
39 digest the target (Cosh *et al.*, 2006). Divestments can proxy for acquisition performance
40 (Meschi and Metais, 2015; Schoenberg, 2006) and, therefore, we control for this with
41 *Divestment* dummy.
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52 Takeover objectives are likely to affect post-takeover outcomes (Walsh, 1988; Walter
53 and Barney, 1990) and also likely to have implications for labour (Haspeslagh and Jemison,
54 1991). Based on newspaper data, and using an inter-rater method, takeovers were classified
55 into four types of transaction based on the primary objective: *Horizontal growth* (47%),
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3 *Efficiency* (25%), *Vertical integration* (16%) and *Diversification* (12%). Two of the researchers
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5 separately classified M&A deals into these four categories of motives, analysing the news
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7 articles collected from *Financial Times*. Where there were disagreements, we discussed these
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9 cases with a third researcher to agree on the final classification. If the acquirer cited business
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11 growth that could be achieved via acquisition of similar companies with similar products, the
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13 acquisition was coded as *Horizontal growth*. If efficiency-based synergy arising from
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15 integrating operations and eliminating duplication was the primary objective, the acquisition
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17 was coded as *Efficiency*. If the primary motive was to incorporate a supplier or customer, the
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19 acquisition was coded as *Vertical integration*. M&A transactions enabling acquirers to enter
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21 new product markets are classified as *Diversification* deals. This is used as the reference
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23 category to create three dummy variables for these objectives.
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31 Various measures to control for accounting performance are included, since these will
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33 likely impact shareholder returns (Goergen and Renneboog, 2004; Martynova and Renneboog,
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35 2011). Drawing on Jensen's view on the role of free cash flow in shareholder-manager agency
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37 relationships (Jensen, 1986), we record free cash flows using target and acquirer firms'
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39 *Operating Cash Flow-to-Total Assets (OCF/TA)*. We also control for *Return on Assets (ROA)*
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41 and *Labour Productivity*, both of which are normalised using their industry medians. As high
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43 debt levels may constrain post-takeover financial performance (Hitt *et al.*, 1998), as well as
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45 limiting managerial autonomy (Jensen, 1986), we control for *Leverage*, defined as the ratio of
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47 total debt to total assets. We also control for *Target run-up*, using target firms' pre-takeover 40
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49 days CAR, as in Martynova and Renneboog (2011), since target firms often experience share
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51 price increases in the run-up to the takeover due to information leakage and insider trading
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53 (Harford, 1999).
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Table 1 provides summary statistics for the control variables (more detailed statistics can be found for the dependent variables and key independent variables in Table 2). A summary of variable definitions can be found Appendix 1, whilst a correlation table is in Appendix 2.

Table 1. Descriptive statistics

Variable names	Mean	S.D.
Target average number of employees	2,960	8,130
Acquirer average number of employees	12,221	25,639
Target average wage (£000)	34.16	19.05
Acquirer average wage (£000)	36.59	30.22
Target institutional ownership	28.86	20.06
Target individual ownership	14.55	19.33
Acquirer institutional ownership	25.07	18.00
Acquirer individual ownership	7.63	13.20
Institutional ownership	25.07	16.40
Individual ownership	6.39	11.59
Hostile	0.18	0.38
All-cash payment	0.30	0.46
Relative employment size	1.67	10.93
Competing bidders	0.09	0.28
Horizontal growth motive	0.47	0.50
Efficiency motive	0.25	0.43
Vertical integration motive	0.16	0.37
Diversification motive	0.12	0.32
Target size (market value in £mln)	202	591
Target OCF/TA	0.12	0.41
Target ROA	0.10	0.21
Target labour productivity (£000)	138.81	223.48
Target leverage	0.20	0.19
Target run-up	0.09	0.28
Acquirer size (market value in £mln)	1,746	7,992
Acquirer OCF/TA	0.13	0.28
Acquirer ROA	0.16	0.18
Acquirer labour productivity (£000)	180.26	404.95
Acquirer leverage	0.19	0.16
Divestment	0.24	0.43

Notes: see Appendix 1 for variable definitions.

Analytical strategy

To determine whether shareholder gains (losses) at and after takeovers are associated with changes to employment and wages, we run a series of regression models based on the following:

$$Premium = a + b_1Planned Lay-offs + b_2Target wage + b_3Acquirer wage + b_4Controls + e.$$

$$CAR = a + b_1Planned Lay-offs + b_2Target wage + b_3Acquirer wage + b_4Controls + e.$$

$$BHAR = a + b_1Lay-offs + b_2Empchange + b_3Wagechange + b_4Controls + e.$$

The premium and CAR models implicitly assume efficient markets in that labour changes are assumed to be priced-in to share prices more or less immediately. The BHAR models also incorporate lags in key independent variables to enable a causal dimension consistent with the proposition that wealth is transferred from labour to capital: the 24 months and 36 months BHAR models incorporate labour changes in Year 1. We use Ordinary Least Squares (OLS) in all regressions and assume that residuals follow a normal distribution. The use of robust standard errors, however, provides a conservative approach. Those observations with large residuals (>2.75 S.D.) are excluded to prevent extreme cases obscuring the main pattern of results. This leads to a very slight reduction in sample size. There is also sample attrition each year due to de-listing of some acquiring firms.

Results

Prior to presenting the regression results, we present summary information of the effects of takeovers on shareholders and employees in Table 2. This provides important context for what comes later.

Shareholders' gains from takeovers

As expected, Table 2 shows that there is a substantial premium accruing to the shareholders of takeover targets (Hayward and Hambrick, 1997; Sirower, 1997). On average, this is 36% (**Panel A**), and the difference between the premiums of no planned lay-offs and planned lay-offs sub-samples is not significant. Target company shareholders earn significantly higher (19%) CAR in the three days around the takeover announcement, and this is similar for the two sub-samples. Acquirer shareholders make a small loss in both sub-samples (c.f. Goergen and Renneboog, 2004; Bethel *et al.*, 2009).

Looking to the longer term (**Panel B**), on average, shareholders receive negative BHAR in each post-takeover year. This is consistent with previous evidence on shareholder returns (Sudarsanam and Mahate, 2006; Cording *et al.*, 2010). But there is variation in returns: whilst most firms achieve negative returns, a substantial minority (45%) secure positive abnormal returns. Our results also show that the differences between the BHAR of the no lay-offs and lay-offs sub-samples are not significantly different at $p < 0.05$.

Changes in employment and wages

Panel A shows that employee lay-offs are planned at the time of the takeover in 82 (22%) cases, whilst **Panel B** shows that 167 (44%) takeovers have lay-offs by the end of the first full financial year. **Panel C** shows actual employment changes at various points after the takeover. It includes both 'raw' and adjusted (relative to control firms) average employment change after the takeoverⁱⁱ. In the full sample, mean unadjusted employment change is slightly negative (but positive, though not significantly so, when compared with control firms). In the no lay-offs sub-sample employment growth is 8% (12%) in the first (third) post-takeover year, while in the lay-offs sub-sample employment decline is 12% (20%) in the first (third) post-takeover year. Adjusted employment changes show similar results, with the differences between the two

groups of firms significant at $p < 0.01$. However, employees benefit from growth in wages after the takeover (**Panel D**). Adjusting for control firms, wage growth is smaller (negative in Year 3), but wage increases in the two sub-samples are not significantly different.

Table 2. Shareholder gains, employment and wage changes

Dependent and key independent variables	Full sample	No Planned Lay-offs sub-sample	Planned Lay-offs sub-sample	Difference between the sub-samples
	Mean	Mean	Mean	
Panel A: Premium and CAR				
Number of M&A deals	376	294	82	
Acquisition premium (%)	35.99	35.32	38.39	-3.07
Target CAR (%)	19.03***	19.12***	17.83***	1.29
Acquirer CAR (%)	-1.06***	-1.03***	-1.20*	0.17
	Full sample	No Lay-offs sub-sample	Lay-offs sub-sample	Difference between the sub-samples
	Mean	Mean	Mean	
Panel B: BHAR				
Number of M&A deals	376	209	167	
12 months BHAR (%)	-6.08*	-5.88*	-6.32*	0.44
24 months BHAR (%)	-14.78***	-10.82**	-19.74***	8.92
36 months BHAR (%)	-16.88**	-16.52**	-17.34**	0.82
Panel C: Post-takeover employment changes				
Employment change in Year 1 (% , unadjusted)	-0.74	8.31***	-12.05***	20.35***
Employment change in Year 3 (% , unadjusted)	-2.26	11.81***	-19.55***	31.36***
Employment change in Year 1 (% , adjusted)	0.17	6.52*	-7.79***	14.31***
Employment change in Year 3 (% , adjusted)	1.27	8.80*	-7.97*	16.77**
Panel D: Post-takeover wages changes				
Wages change in Year 1 (% , unadjusted)	6.28***	5.48***	7.28***	-1.80
Wages change in Year 3 (% , unadjusted)	10.24***	8.31***	12.60***	-4.29
Wages change in Year 1 (% , adjusted)	0.63	-0.32	1.83	-2.15
Wages change in Year 3 (% , adjusted)	-1.57	-2.88	0.04	-2.91

Notes: Significance levels: * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$. The statistical significance of the mean values is tested against zero using the single sample t-test. The equality of means of the same variable between two sub-samples is tested using the two-sample t-test with equal variances.

Overall, the primary beneficiaries of takeovers are the shareholders of the target firm. On average, the shareholders of the merged firm suffer, whilst labour also suffers from small net employment reductions. However, remaining employees benefit from wage increases. So far then, there is little evidence to suggest that shareholders benefit at labour's expense.

Do shareholders benefit at labour's expense at the takeover?

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3 The results in **Table 3** focus on shareholder returns at the time of the takeover, and are used to
4 test Hypothesis 1. The regressions show the relationships between the takeover premium, target
5 and acquirer CAR, and a range of possible influences, including planned lay-off
6 announcementsⁱⁱⁱ. Besides the labour variables, the regressions control for the characteristics
7 and the objectives of the transaction, size and performance of target and acquirer firms. For
8 Hypothesis 1 to be proven, there needs to be a positive association significant at $p < 0.05$
9 between lay-offs and shareholder returns. Model 1 has the *Premium* as the dependent variable,
10 Models 2 and 3 have *Target CAR*, and Model 4 has *Acquirer CAR*. Model 2 replicates Model
11 1 in terms of independent variables, whilst Models 3 and 4 add the *Premium*, on the basis that
12 the premium will contribute to shareholder returns.
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27 Significant influences on the *Premium* (Model 1) are hostility and individual equity
28 stakes. Among other control variables, *Relative employment size*, *Target run-up* and various
29 features of the target and acquirer, such as size and leverage, are also associated with the
30 *Premium*. It is a similar picture for *Target CAR* (Model 2), though *Hostile* becomes
31 insignificant and *Acquirer OCF/TA* become significant. Takeovers aimed at expanding
32 markets, but not enhancing efficiency, (relative to diversification) have a significant, positive
33 relationship with *Target CAR*. Model 3 replicates Model 2 but with the inclusion of the
34 *Premium*. This latter variable unsurprisingly has a strong positive relationship with *Target CAR*
35 and leads to a substantial improvement in model fit. Model 4 has a weaker fit than the others,
36 but it is worth noting that *Acquirer wage*, *All-cash payment*, *Relative employment size*, *Target*
37 *leverage*, *Target run-up* and *Acquirer labour productivity* show significant relationships with
38 *Acquirer CAR* at $p < 0.05$ or better.
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Table 3. Planned lay-offs and shareholder returns at takeover announcements

	Premium	Target CAR	Target CAR	Acquirer CAR
	Model 1	Model 2	Model 3	Model 4
Planned lay-offs	0.058	-0.105	-0.076	-0.147*
Target wage	0.011	-0.019	-0.021	-0.016
Acquirer wage	-0.039	0.034	0.043	-0.129**
Premium			0.575***	-0.034
Hostile	0.109*	-0.017	-0.081	0.033
Target institutional ownership	-0.002	-0.017	-0.014	
Target individual ownership	0.154*	0.003	-0.031	
Acquirer institutional ownership				0.030
Acquirer individual ownership				0.035
All-cash payment	-0.057	-0.008	0.035	0.143**
Relative employment size	0.202**	0.192*	0.094	-0.176*
Competing bidders	0.076	0.061	0.018	-0.043
Horizontal growth	-0.007	0.209**	0.183*	-0.08
Efficiency	-0.068	0.166	0.178*	0.042
Vertical integration	-0.042	0.065	0.061	-0.076
Target size (market value)	-0.332**	-0.415***	-0.229*	0.151
Target OCF/TA	-0.052	-0.009	0.011	0.014
Target ROA	0.025	0.021	0.043	-0.057
Target labour productivity	0.055	0.082	0.061	0.051
Target leverage	-0.142**	-0.193***	-0.112**	0.110*
Target run-up	0.348***	-0.141*	-0.306***	0.123*
Acquirer size (market value)	0.439***	0.565***	0.301**	-0.071
Acquirer OCF/TA	-0.008	0.110**	0.071*	0.059
Acquirer ROA	0.009	0.008	-0.008	-0.062
Acquirer labour productivity	0.014	-0.01	-0.001	0.162***
Acquirer leverage	0.04	0.117*	0.08	-0.035
Industry dummies	Y	Y	Y	Y
Year dummies	Y	Y	Y	Y
F-statistic	3.299***	2.553***	5.596***	2.488***
Adjusted R2	0.258	0.148	0.398	0.100
Number of observations	372	370	370	370

Notes: OLS, using heteroscedasticity-robust standard errors. Standardized beta coefficients are reported. Significance levels: *p < 0.05; **p < 0.01; ***p < 0.001.

Turning to the key variables of interest, Model 1 shows that *Planned lay-offs* are not significantly associated with the takeover premium. Models 2 and 3 similarly indicate a lack of relationship between *Planned lay-offs* and *Target CAR*, whilst Model 4 shows that *Planned lay-offs* are negatively associated with *Acquirer CAR*. Instead, target shareholders benefit from

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3 takeovers based on expanding activities (*Horizontal growth*), low leverage, and a small size
4 relative to the acquirer (presumably making the takeover more readily digestible). In other
5 words, target shareholders benefit from good future prospects for the merged company rather
6 than value extraction from labour. These findings therefore contradict the ‘breach of trust’
7 hypothesis, and Hypothesis 1 is not proven. As such, they are consistent with the earlier
8 findings of Beckmann and Forbes (2004). The significant negative relationship between
9 *Planned lay-offs* and *Acquirer CAR*, with a lay-off announcement reducing returns by a 0.15
10 standard deviation point, suggests that some takeovers have challenging prospects^{iv}, and
11 indicates that the stock market views jobs cuts as a bad sign rather than a source of additional
12 returns to shareholders. This is consistent with the idea that labour and shareholders experience
13 ‘pain-sharing’ or ‘equal misery’ post-takeover (Beckmann and Forbes, 2004).
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30 In summary, these findings contradict the ‘wealth transfer’ perspective and we find that
31 Hypothesis 1 (which focuses on shareholder gains at the time of the takeover) is not supported.
32 There is no evidence of wealth transfer from labour to shareholders.
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37 ***The effect of changes in employment and wages on long-term shareholder returns (BHAR)***

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40 Hypothesis 2 proposes that long-term shareholder returns post-takeover will be associated with
41 adverse changes for labour. Relevant regression results are reported in **Table 4**. All models
42 analyse the impact of post-takeover actual *Lay-offs* on BHAR. Model 1 analyses the impact of
43 changes in employment and wages in the first year post-takeover, whilst Models 2 and 3 report
44 the lagged effects of these on Year 2 and 3 BHAR. Model 4 reports the effect of labour changes
45 in Year 3. For Hypothesis 2 to be supported, there needs to be significant positive coefficients
46 on the lay-offs variable and/or significant negative coefficients on the employment and wage
47 change variables.
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Model fit in Models 1 and 2 is weak but Models 3 and 4 have stronger R^2 . Amongst the control variables, the strongest influences on shareholder returns are *ROA*, *Labour Productivity* and the size of the new company (c.f. Cosh *et al.*, 2006). *Premium* is not significantly associated with *BHAR*, although the sign of this variable is negative. Model 2 shows that hostile takeovers generate significantly higher shareholder returns in Year 2 (c.f. Sudarsanam and Mahate, 2006), though these effects dissipate in the following year. The presence of institutional blockholders is associated with higher *BHAR* in Years 1 and 2.

Table 4. Labour changes and post-takeover shareholder gains

	12m BHAR	24m BHAR	36m BHAR	36m BHAR
	Model 1	Model 2	Model 3	Model 4
Lay-offs	-0.084	-0.004	0.027	0.027
EmpchangeYr1	0.003	-0.011	0.012	
WagechangeYr1	0.077	0.114*	0.134*	
EmpchangeYr3				0.198**
WagechangeYr3				0.157**
Premium	-0.038	-0.082	-0.09	-0.099
Hostile	0.104	0.139*	0.082	0.072
Institutional ownership	0.123*	0.142*	0.094	0.086
Individual ownership	-0.097	0.014	0.002	-0.015
All-cash payment	0.065	0.073	0.069	0.069
Relative employment size	-0.042	-0.028	0.094	0.116
Horizontal growth	0.063	-0.089	-0.009	-0.013
Efficiency	0.132	-0.098	-0.033	-0.012
Vertical integration	0.086	-0.067	0.058	0.043
Size (market value) in Year 0	0.039	0.159*	0.166*	0.156*
ROA	0.171**	0.125*	0.232***	0.180**
Labour productivity	0.034	0.116*	0.131*	0.123*
Leverage in Year 0	0.019	0.042	-0.03	-0.025
Divestments	-0.09	-0.141*	-0.093	-0.048
Industry dummies	Y	Y	Y	Y
Year dummies	Y	Y	Y	Y
F-statistic	2.005***	2.355***	2.710***	2.680***
Adjusted R2	0.074	0.12	0.201	0.226
Number of observations	370	342	316	316

Notes : OLS, using heteroscedasticity-robust standard errors. Standardized beta coefficients are reported. Significance levels: * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

Two Year 1 labour measures — *Lay-offs* and *EmpchangeYr1* — are insignificant in all models. Contrary to Hypothesis 2 and predictions from the ‘wealth transfer’ perspective, Models 2 and 3 indicate that wage growth just after the takeover (*WagechangeYr1*) has a positive lagged impact on *BHAR* in Years 2 and 3. A one standard deviation higher growth in *WagechangeYr1* generates 0.13 standard deviation higher *BHAR* in Year 3. This finding is more consistent with human capital, resource-based, and efficiency wages perspectives than ‘wealth transfer’. It implies that if labour does well, shareholders will subsequently benefit.

Model 4 shows that *EmpchangeYr3* and *WagechangeYr3* are positively associated with shareholder returns at the end of that year. A one standard deviation increase in *EmpchangeYr3* is associated with a 0.20 standard deviation higher *BHAR* in Year 3, while a one standard deviation increase in *WagechangeYr3* means 0.16 standard deviation higher *BHAR*. The model fits for Year 3 results are substantially greater than those for earlier years, in part because of the sizeable coefficients on the labour variables. When shareholders do well, employees benefit, and equally, when they do badly, labour does so also (given that there are both positive and negative values of *BHAR*). In place of ‘wealth transfer’, the results are more consistent with either ‘pain-sharing’ or ‘gain-sharing’. Hypothesis 2, therefore, is not supported. Given the nature of these findings, and the variation in shareholder returns in the sample, we now examine in more detail how the results may vary according to whether shareholder returns are positive or negative.

Sub-sample analysis: pain-sharing or gain-sharing?

The positive relationships between labour and shareholder returns in Table 4 could be due to ‘pain-sharing’ and/or ‘gain-sharing’ given that the dependent variables and employment/wages changes have both negative and positive values. To investigate this, we segment the sample according to whether shareholders earn positive or negative abnormal returns and re-run the

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3 previous regressions for each of these. Negative BHAR are converted to absolute numbers to
4 ease interpretation and comparability with the results for positive BHAR. Results are reported
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7 in **Table 5**.
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11 Amongst firms with positive BHAR in the first year, absence of lay-offs is associated
12 with more positive BHAR at the end of the first year (Model 1), and the effect is sizeable. At
13 the same time, employment and wages changes do not have a significant relationship with
14 BHAR, indicating that ‘pain-sharing’, ‘gain-sharing’ or ‘wealth transfer’ have not taken place.
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16 The same can be said for the second year after the takeover (Models 3 and 5), though the signs
17 differ from those in the first year.
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26 It is a rather different picture amongst those firms that experience negative BHAR at
27 the end of the first year after the takeover. Whilst the employment and wages change variables
28 remain insignificant, the negative coefficient on lay-offs (significant at $p < 0.05$) indicates that
29 lay-offs are associated with smaller negative BHAR (Model 2). This may indicate that those
30 firms doing badly that instigate lay-offs achieve some remedial benefits for shareholders,
31 consistent with Cascio *et al.*'s (1997) results. The coefficients on lay-offs in Year 2 and 3
32 negative BHAR models (4, 6 and 8) are of a similar sign and magnitude, though do not achieve
33 significance at $p < 0.05$.
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45 Although most of the coefficients for Year 1 employment change (and all for wages
46 changes) are insignificant, in Model 4, employment change is negatively associated (at $p <$
47 0.05) with negative BHAR one year later. This indicates that larger employment reductions are
48 associated with larger negative BHAR and suggests that when employees collectively suffer as
49 a result of takeovers, shareholders also suffer in the longer-run (Birkinshaw *et al.*, 2000; Stahl
50 and Voigt, 2008). These results therefore support a ‘pain-sharing’ interpretation and are
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consistent with those perspectives suggesting that dissipation of valuable human capital after takeovers harms performance (Cording *et al.*, 2014).

Table 5. Labour and shareholder gains: segmented analysis

	Positive 12m BHAR sub-sample	Negative 12m BHAR sub-sample (absolute values of BHAR)	Positive 24m BHAR sub-sample	Negative 24m BHAR sub-sample (absolute values of BHAR)	Positive 36m BHAR sub-sample	Negative 36m BHAR sub-sample (absolute values of BHAR)	Positive 36m BHAR sub-sample	Negative 36m BHAR sub-sample (absolute values of BHAR)
	Model 1	Model 2	Model 3	Model 4	Model 5	Model 6	Model 7	Model 8
Lay-offs	-0.294**	-0.177*	-0.142	-0.117	-0.04	-0.188	0.026	-0.156
EmpchangeYr1	0.007	0.107	-0.011	-0.197*	-0.199	-0.162		
WagechangeYr1	0.071	-0.084	-0.097	-0.118	-0.078	-0.102		
EmpchangeYr3							-0.001	-0.212*
WagechangeYr3							0.177*	-0.093
Premium	-0.088	-0.006	-0.009	0.008	-0.08	0.095	-0.157*	0.089
Hostile	0.084	-0.003	0.065	0.005	-0.033	0.087	-0.061	0.062
All other control variables Y		Y	Y	Y	Y	Y	Y	Y
F-statistic	2.072*	1.541	1.15	2.921***	11.165***	2.513***	7.526***	2.218***
Adjusted R2	0.09	0.077	0.062	0.221	0.236	0.22	0.297	0.221
Number of observations	165	203	159	184	154	161	153	162

Notes : OLS, using heteroscedasticity-robust standard errors. Standardized beta coefficients are reported. Significance levels: * $p < 0.05$; ** $p < 0.01$; *** $p < 0.001$.

Models 7 and 8 report regressions where *EmpchangeYr3* and *WagechangeYr3* are key independent variables. There are substantial differences in the size of the *EmpchangeYr3* coefficients between the positive and negative BHAR sub-samples. Employment change is negatively related to negative BHAR (significant at $p < 0.05$), but there is no relationship where BHAR is positive. These particular results contradict a ‘wealth transfer’ perspective and provide further support for a ‘pain-sharing’ perspective when shareholders have negative BHAR. By contrast, wage change is positively associated with positive BHAR, suggesting that ‘gain-sharing’ takes place as far as wages are concerned when firms are doing well. This is also consistent with those perspectives that suggest that high wages can enhance performance by retaining and developing the human capital stock.

Overall, there is evidence of ‘pain-sharing’ when shareholders achieve negative returns, and partial evidence of ‘gain-sharing’ (higher wages) where shareholders do well. There is no

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3 evidence to support a ‘wealth transfer’ view that shareholders benefit at labour’s expense.
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5 There are no clear links between employment reductions and positive returns, whilst lay-offs
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7 have a negative impact on these returns. These results therefore provide further evidence to
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9 contradict Hypothesis 2, and suggest instead that labour and shareholders’ interests after
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11 takeovers function in tandem rather than at the expense of the other. Indeed, there is some
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13 limited evidence that when labour suffers, shareholders subsequently pay.
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18 **Discussion and conclusions**

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21 This paper assesses whether shareholder returns after takeovers are achieved at the expense of
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23 employees, as predicted by the ‘wealth transfer’ hypothesis. To do this we evaluate the
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25 association between planned lay-offs, actual lay-offs, employment and wage changes and
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27 shareholder returns at the time of the takeover and in the three year period afterwards. In
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29 general, the results indicate that takeover gains are not generated by transferring wealth from
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31 employees to shareholders. Acquirer shareholders’ short-run gains (CAR) are inversely related
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33 with planned lay-offs. The latter have no impact on the takeover premium or target CAR,
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35 indicating that the gains to target shareholders are not achieved at labour’s expense (c.f.
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37 Krishnan *et al.*, 2007). After the takeover, there is a positive association between employment
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39 (wage) growth and shareholders’ long-run gains. Where acquirer shareholders do well, so does
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41 labour, as confirmed by the sub-sample analysis. This analysis shows that in some cases
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43 shareholders and employees share gains: shareholders earn higher BHAR, while employees
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45 receive higher wage growth than in comparator firms. However, lay-offs are associated with
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47 shareholder losses when BHAR is negative, providing evidence of ‘pain-sharing’.
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55 Overall, these results suggest that the ‘wealth transfer’ perspective has limited utility in
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57 the analysis of the effects of takeovers. They therefore contradict those theoretical perspectives
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59 that emphasise the conflicting interests of labour and shareholders and provide an instance
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3 where, instead, their interests are complementary (Jackson, 2005). More appropriate theoretical
4 perspectives are those which stress the damage that employment reductions or decline in
5 employee trust in management can do to shareholder returns after takeovers (Zollo and Meier,
6 2008; Cording *et al.*, 2014). Paradoxically, the theoretical basis of these views and the ‘wealth
7 transfer’ perspective is not dissimilar. Both draw attention to the important role of human
8 capital in the value of the firm but differ in their analysis as to how far shareholders can over-
9 ride it.

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12 Our contribution is not just that we cast doubt on the ‘wealth transfer’ view. The
13 findings also provide evidence of complementary interests between shareholders and
14 employees. We go further by distinguishing between ‘pain-sharing’ and ‘gain-sharing’. When
15 shareholders do well, labour does well, at least in terms of wages. When shareholders
16 experience pain, so does labour. Furthermore, through the use of lagged variables, we are able
17 to provide evidence that is supportive of a causal interpretation in relation to human capital.
18 Where labour benefits from wages growth, shareholders subsequently achieve higher BHAR,
19 though we are hesitant to make a stronger causal claim given the nature of our data. Our data
20 also precludes a definitive assessment of the processes whereby wages growth impacts on
21 shareholder returns, though there are a variety of possibilities such as re-establishment or
22 reinforcement of trust (Cording *et al.*, 2014), reductions in employee resistance to change
23 (Larsson and Finkelstein, 1999), reduced employee turnover (Cording *et al.*, 2008), and
24 limitation of knowledge transfer to competitors via staff exits (Younge *et al.*, 2015). Wage
25 growth may also encourage transfer of knowledge and cooperation between employees in the
26 merging firms (Stahl *et al.*, 2011; Junni *et al.*, 2015; Sarala *et al.*, 2016), and this may lead to
27 successful organisational integration (Birkinshaw *et al.*, 2000; Cording *et al.*, 2014). It is
28 possible also that powerful ‘insiders’ are able to capture some of the gains of good post-
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3 takeover performance. Meanwhile, the response of employment rather than wages to adverse
4 performance is consistent with economic views of ‘wage stickiness’ (Blinder and Choi, 1990).
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9 The implication for managers is that they should not underestimate the role of human
10 capital when mounting takeovers. A clear message from the results is that takeovers that
11 incorporate explicit plans to lay-off employees after the transaction do not generally appeal to
12 the stock market, presumably because lay-offs signal that the takeover is risky. Shareholders
13 receive lower abnormal returns at takeover when there are lay-off plans, and positive BHAR
14 later on are likely to be smaller if lay-offs have taken place. Takeovers that are designed to
15 transfer wealth from other stakeholders such as labour to shareholders may well not succeed.
16 Instead, the implication of the longer-run results is that acquirers that look after employees —
17 as proxied by greater wage growth — are likely to have higher positive returns. As indicated
18 above, there are a variety of reasons why this is the case. There are lessons for labour also here:
19 its appeal to shareholders to be well-treated during and after takeovers could well appeal to
20 shareholder self-interest.
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37 There are several limitations to the research, which should be borne in mind in
38 interpreting the results. We have not been able to explore the factors external to the firm that
39 influence which workers experience lay-offs or secure wage increases (Bauer *et al.*, 2018,
40 Siegel and Simons, 2010). A further limitation is that our data sources preclude examination
41 of alternatives to lay-offs such as voluntary redundancies or early retirements (Goergen *et al.*,
42 2013). In addition, there could be significant labour displacement and churn, masked by the
43 aggregate employment figures. Labour may also be affected in other ways not captured in this
44 study, such as by changes to pension provision (Pontiff *et al.*, 1990). And takeovers may
45 generate a sense of insecurity that has adverse effects on employee well-being, labour turnover,
46 and employee performance. These dynamics of labour restructuring may negatively impact on
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3 implicit labour contracts and subsequently on the acquirers' performance in the longer term.
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5 Many of these outcomes have been highlighted in previous literature on the labour outcomes
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7 of takeovers, but there is a case for examining them more closely in relation to financial
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9 measures of shareholder outcomes.
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13 A further issue is that the relationships observed here may, to some extent, be context-
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15 specific, with labour market flexibility and efficiency moderating the relationship between
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17 gains and losses to labour and capital (Bauer *et al.*, 2018). Where there is lower labour market
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19 flexibility, the capacity of labour to resist post-takeover restructuring could mean that there is
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21 a greater net transfer of wealth from shareholders to labour. Comparative studies located in
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23 varying labour market contexts could illuminate these possibilities. A further issue concerns
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25 cross-border transactions, and the possibility that shareholders in one country load the costs of
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27 takeovers onto employees in another. Unfortunately, we were unable to examine cross-border
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29 takeovers because of the difficulties in integrating financial and company data from different
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31 national settings. We know of no direct evidence on the extent to which wealth transfers occur
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33 in cross-border transactions, though there is public disquiet that foreign takeovers have adverse
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35 impacts on domestic employees. It is possible that wealth sharing is more prevalent than wealth
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37 transfer in cross-border transactions because foreign acquirers tend to takeover good
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39 performing firms to expand their market share (Bandick and Karpaty, 2011).
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46 Within the confines of our national focus, there are also other limitations. The exclusion
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48 of serial acquirers (to avoid 'contamination' of the employment data) may exclude those
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50 companies that are better at securing wealth transfers from labour to shareholders or,
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52 alternatively, those that are better at achieving successful integration and better outcomes for
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54 labour. The potential bias may run either way. A further limitation is that we have limited
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56 information on the identity of major shareholders. For instance, our data sources do not allow
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3 us to differentiate between sub-types of institutional investors, such as hedge funds, pension
4 funds, and sovereign wealth funds, each of which may have different approaches to monitoring
5 their investee companies (see Gospel *et al.*, 2014). Our focus on the listed sector also means
6 that we cannot examine the role of private equity acquisitions, which may involve greater
7 wealth transfer from employees to shareholders. Future research should attempt to identify the
8 types of institutional investors, their investment horizons and their investment strategies, as
9 these may affect the nature and extent of labour outcomes after takeovers.
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For Review Only

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ⁱ We do not use corporate holdings as these are not generally important in the British context.

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43 ⁱⁱ We select control firms that are not involved in M&A transactions during the observation period for each target
44 and acquiring firm, matched by industry, size, and performance. We use average employment (wage) change for
45 these control firms (matched for each target and acquirer firm) to adjust the acquiring firms' employment (wage)
46 change during post-takeover years.

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48 ⁱⁱⁱ Regression diagnostics indicate multicollinearity is not a substantial issue as the Variance Inflation Factor (VIF)
49 is well below 10 for all variables in our models. Checks for the normality of the residuals reveal that there are four
(in Model 1) and six (in Models 2-4) outlier observations. The reported regressions exclude these outliers.

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51 ^{iv} We also analyse market reactions to employee lay-offs according to the motives (efficiency, horizontal
52 integration etc.) for the takeovers. For example, the market may react positively to lay-offs after takeovers with
53 an efficiency motive. Therefore, we re-run Models 2-4, including the interactions of *Planned Lay-offs* with the
54 dummies for each motive. The (unreported) results indicate that the associations between *Target (Acquirer) CAR*
55 and lay-offs do not vary significantly between takeovers with different motives.

Appendix 1 Variable definitions

Variable	Definition
Dependent variables	
<i>Premium</i>	The difference between the purchase price and the target firm share price 30 days before the initial takeover announcement date, divided by the target firm share price 30 days before the initial takeover announcement date (<i>Source: Thomson Reuters and DataStream</i>).
<i>CAR</i>	The 3-day cumulative abnormal return (in percentage points) calculated using the market model. The market model parameters are estimated using the return data for the trading days between -300 and -42 before the event. (<i>Source: DataStream</i>).
<i>BHAR</i>	Buy-and-hold abnormal return (in percentage points) for acquiring firms over 12, 24 and 36 months periods after the announcement month, relative to non-acquirer control firms. (<i>Source: DataStream</i>).
Labour variables (key independent variables)	
<i>Planned lay-offs (0,1)</i>	Equals 1 if media reports around the time of the M&A announcement or within a few days of the transaction indicate post-merger lay-offs will occur. (<i>Source: Financial Times and other press reports</i>).
<i>Lay-offs (0,1)</i>	Equals 1 if the acquirer makes at least 1 per cent of the combined workforce of the acquired and the acquiring firms redundant by the end of the first full post-takeover fiscal year (<i>Source: Financial Times and other press reports</i>).
<i>EmpchangeYr1 (3)</i>	The percentage employment change, measured as the difference between the post-takeover employment of the acquiring firm in Year 1 (Year 3) and pre-takeover combined employment of the acquiring and the acquired firm, divided by the average of pre- and post-takeover employment. This is adjusted according to employment change in the matched control firms. (<i>Source: DataStream</i>).
<i>Target (Acquirer) wage</i>	The ratio of annual total staff costs in real terms (converted into 2013 values using the Consumer Price Index) of the target (acquirer) firm during the financial year immediately before takeover to the number of workers employed during that year. This is adjusted using wages in the matched control firm. (<i>Source: DataStream</i>).
<i>WagechangeYr1 (3)</i>	The percentage wage change, measured as the difference between the post-takeover wage (total staff costs in real terms divided by employment) in the acquiring firm in Year 1 (Year 3) and pre-takeover combined average wages of the acquired and acquiring firms, divided by the average of pre- and post-takeover wages. This is adjusted according to wages change in the matched control firms. (<i>Source: DataStream</i>).
Equity blockholders	
<i>Target (acquirer) Institutional ownership</i>	The total percentage of ownership of the target's (acquirer) all institutional shareholders owning more than 3 per cent of ordinary shares in the year before the takeover (<i>Source: PI Filing Expert</i>).
<i>Target (acquirer) Individual ownership</i>	The total percentage of ownership of the target's (acquirer) individual shareholders, including managers, owning more than 3 per cent of ordinary shares in the year before the takeover (<i>Source: PI Filing Expert</i>).
<i>Institutional ownership</i>	The total percentage of ownership of all institutional shareholders owning more than 3 per cent of ordinary shares in the year after the takeover (<i>Source: PI Filing Expert</i>).

<i>Individual ownership</i>	The combined percentage of ownership of all individual shareholders, including managers, owning more than 3 per cent of ordinary shares in the year after the takeover (<i>Source: PI Filing Expert</i>).
Deal characteristics	
<i>Hostile (0,1)</i>	Equals 1 if an acquisition is defined as hostile takeover, where an initial bid was rejected by the target firm management (<i>Source: Thomson Reuters and Financial Times</i>).
<i>All-cash payment (0,1)</i>	Equals 1 if an acquisition was financed entirely by cash payments (<i>Source: Thomson Reuters</i>).
<i>Relative employment size</i>	The ratio of the acquired firm's employment to that of the acquiring firm during the pre-takeover financial year. Log transformed. (<i>Source: DataStream</i>).
<i>Competing bidders (0,1)</i>	Equals 1 if more than one firm was involved in the deal (<i>Source: Thomson Reuters</i>).
<i>Divestment (0,1)</i>	Equals 1 if the acquirer makes a significant asset divestment after the transaction, as reported in the press. (<i>Source: Financial Times</i>).
Takeover motives	
<i>Horizontal growth</i>	Equals 1 if a M&A deal involves acquiring a rival firm and the acquiring firm managers indicate business growth and expansion as the main objective of the deal (as reported in the press), 0 otherwise (<i>Source: Financial Times</i>).
<i>Efficiency</i>	Equals 1 if the acquiring firm managers specifically indicate rationalisation, cost savings and other required improvements in the targeted firm as the main objective of the takeover transaction (as reported in the press), 0 otherwise (<i>Source: Financial Times</i>).
<i>Vertical integration</i>	Equals 1 if a M&A deal involves two firms where there is some type of business relationship between them, such as supplier or customer (as reported in the press), 0 otherwise (<i>Source: Financial Times</i>).
<i>Diversification</i>	Equals 1 if a M&A deal is undertaken by a conglomerate acquirer, whose managers indicate business diversification as the main objective of the deal (as reported in the press), 0 otherwise (<i>Source: Financial Times</i>).
Firm characteristics	
<i>Size</i>	The share price 42 days prior to the initial takeover announcement multiplied by the number of ordinary shares in issue. Log transformed. (<i>Source: DataStream</i>).
<i>OCF/TA</i>	Operating Cash flow-to-Total Assets, defined as sales minus cost of goods sold (excluding depreciation), selling, general and administrative expenses and working capital change, divided by total assets. (<i>Source: DataStream</i>).
<i>ROA</i>	Return on Assets, defined as Earnings Before Interest, Taxes and Depreciation (EBITDA) divided by the book value of total assets at the beginning of the year, minus the respective industry median ROA. (<i>Source: DataStream</i>).
<i>Labour productivity</i>	Sales per employee minus respective industry median labour productivity (<i>Source: DataStream</i>).
<i>Leverage</i>	The ratio of the acquirer's total debt to its total assets at the end of the takeover completion fiscal year. (<i>Source: DataStream</i>).
<i>Target run-up</i>	Cumulative abnormal returns of the target firm during the 40 days from day -42 to day -2 before the initial takeover announcement. (<i>Source: DataStream</i>).

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For Review Only

Appendix 2. Correlations table

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1 Acquisition premium	1																			
2 Target CAR	0.5182*	1																		
3 Acquirer CAR	-0.0009	-0.0357	1																	
4 12 months BHAR	-0.0185	-0.0147	0.0676	1																
5 24 months BHAR	-0.0279	-0.0677	0.0207	0.6467*	1															
6 36 months BHAR	-0.0729	-0.0423	0.0143	0.4575*	0.7494*	1														
7 Planned lay-offs	0.0364	-0.0233	-0.013	-0.0315	-0.0944	-0.04	1													
8 Actual lay-offs	0.0343	0.0231	0.1343*	-0.004	-0.0528	-0.0031	0.5908*	1												
9 EmpchangeY1	0.0474	-0.0291	-0.0154	0.08	0.0436	0.0433	-0.2218*	-0.2846*	1											
10 EmpchangeY3	-0.0386	0.0019	0.0064	0.1280*	0.1442*	0.1691*	-0.2819*	-0.3164*	0.7533*	1										
11 WagechangeYr1	0.091	0.0451	0.0047	-0.0101	0.0732	0.0757	0.0631	0.0421	-0.3419*	-0.2226*	1									
12 WagechangeYr3	0.1365*	0.0723	-0.0131	0.0301	0.0729	0.0974	0.0621	0.0788	-0.2537*	-0.3585*	0.6607*	1								
13 Target institutional ownership	-0.0468	-0.0087	0.0266	0.0406	-0.03	-0.0477	-0.1085*	-0.0559	0.1112*	0.1186*	-0.0552	-0.0492	1							
14 Target individual ownership	0.0489	0.0106	0.0635	-0.0276	-0.033	-0.0318	-0.1860*	-0.1396*	0.0994	0.1004	0.0043	0.016	-0.3086*	1						
15 Acquirer institutional ownership	-0.0405	-0.0656	0.0035	0.0244	0.0766	0.039	-0.099	-0.087	0.0144	-0.012	-0.031	-0.0461	0.1714*	-0.0687	1					
16 Acquirer individual ownership	0.0804	-0.0123	0.0146	-0.0469	-0.0819	-0.0733	-0.1835*	-0.2501*	0.1336*	0.0855	-0.0407	-0.0567	-0.022	0.1743*	-0.1178*	1				
17 Institutional ownership	-0.0464	-0.0484	0.0518	0.0445	0.0963	0.0769	-0.1048*	-0.0553	0.0606	-0.0191	-0.0293	-0.0265	0.2327*	-0.0491	0.7376*	-0.1111*	1			
18 Individual ownership	0.0148	-0.0727	-0.031	-0.0499	-0.0478	-0.0618	-0.1851*	-0.2504*	0.1059*	0.0402	-0.074	-0.0592	-0.0093	0.1686*	-0.1170*	0.8541*	-0.1354*	1		
19 Horizontal growth motive	0.0265	-0.0023	-0.0217	-0.0214	0.0169	0.0278	-0.2400*	-0.3176*	0.1905*	0.2066*	-0.0596	-0.0193	-0.05	0.1024*	0.0405	0.1215*	0.0035	0.0877	1	
20 Efficiency motive	-0.0513	0.057	0.1130*	0.0444	-0.0295	-0.0111	0.4090*	0.3987*	-0.2193*	-0.2278*	-0.0215	0.0111	0.0011	-0.0874	-0.0248	-0.1383*	0.0248	-0.0937	-0.5445*	1
21 Vertical integration motive	-0.0162	-0.0465	-0.0557	0.0394	-0.0085	-0.0279	-0.0926	-0.0159	0.0549	0.0553	0.0677	0.0193	0.0022	0.0644	-0.0798	0.0207	-0.1019*	0.0101	-0.4150*	0.0036
22 Diversification motive	0.0464	-0.0199	-0.0547	-0.0719	0.0232	0.0038	-0.072	-0.0257	-0.0635	-0.0724	0.0438	-0.0074	0.0736	-0.1151*	0.062	-0.0262	0.0781	-0.0217	-0.3433*	0.0036
23 Target size	-0.0152	-0.0224	0.0443	0.0304	0.0227	0.0384	0.4026*	0.3446*	-0.0541	-0.0468	0.0236	0.0404	-0.0578	-0.3766*	-0.1121*	-0.3548*	-0.1311*	-0.3469*	-0.1676*	0.0036
24 Target OCF/TA	0.0324	0.0135	0.0459	-0.0331	0.0297	0.0211	-0.0092	0.0238	0.081	0.0333	-0.1171*	-0.0385	0.0538	-0.0203	0.0128	-0.1426*	-0.0474	-0.1280*	0.0858	0.0036
25 Target ROA	0.0216	0.0264	-0.0235	0.0931	0.1280*	0.0857	0.0109	-0.0337	0.1161*	0.0663	-0.028	0.0005	0.0256	0.056	-0.0395	-0.0667	0.0017	-0.083	-0.0269	0.0036
26 Target labour productivity	-0.011	-0.0055	0.0856	0.0055	0.0014	0.0623	0.1048*	0.1046*	-0.0158	-0.0073	-0.0453	0.0308	-0.1495*	0.0128	-0.067	-0.0168	-0.1436*	0.0054	0.006	0.0036
27 Target leverage	-0.1361*	-0.1169*	0.0955	-0.002	0.0292	0.0667	0.0608	0.0186	-0.0699	-0.0727	0.0108	0.0928	-0.0315	-0.0937	-0.0109	0.0372	-0.0164	0.0223	-0.0118	0.0036
28 Target run-up	0.3486*	-0.0637	0.0498	0.0541	0.0851	0.0039	-0.0338	0.0108	-0.0019	-0.0841	-0.0722	0.0161	-0.0665	0.0703	-0.0688	0.0816	-0.0321	0.0636	0.0436	0.0036
29 Acquirer size	0.1377*	0.1326*	0.0695	0.0417	0.0891	0.0876	0.2914*	0.3394*	0.045	0.0489	0.0058	0.0462	-0.0307	-0.2148*	-0.2842*	-0.3930*	-0.2389*	-0.3730*	-0.1669*	0.0036
30 Acquirer OCF/TA	0.0549	0.0506	0.0422	-0.0067	0.0614	0.0847	0.0656	0.0725	0.0102	0.0004	-0.1096*	-0.0062	0.0672	-0.1074*	-0.0618	-0.0733	-0.0521	-0.0847	-0.0465	0.0036
31 Acquirer ROA	0.0748	0.0463	-0.0507	0.0443	0.0545	0.0094	-0.0205	-0.062	0.2230*	0.1074	-0.0029	0.0267	0.0691	-0.0619	-0.0548	-0.045	-0.0551	-0.0488	0.0444	0.0036
32 Acquirer labour productivity	-0.0432	-0.0218	0.1088*	0.0514	0.0524	0.0386	0.011	-0.0231	-0.0642	-0.0399	-0.0015	0.011	-0.012	0.0633	0.1148*	-0.045	0.1642*	-0.0179	-0.0041	0.0036
33 Acquirer leverage	0.0172	0.046	0.0403	0.0373	0.0388	0.0002	0.1208*	0.1135*	-0.0559	0.0205	0.0839	0.0809	0.0197	-0.0584	-0.1013*	-0.1178*	-0.1464*	-0.1152*	-0.0567	0.0036
34 Hostile	0.1537*	0.004	0.0004	0.0928	0.0829	0.0602	0.1748*	0.1293*	-0.1294*	-0.0703	0.1189*	0.0835	-0.0096	-0.1794*	-0.1058*	0.0083	-0.1033*	0.0195	-0.0771	0.0036
35 All-cash payment	0.0182	0.0375	0.1556*	0.0862	0.1127*	0.0914	0.0019	0.1091*	0.0201	-0.0132	-0.0288	0.0038	-0.0001	0.0863	-0.0323	-0.0243	0.0105	-0.0039	-0.0773	0.0036
36 Relative employment size	-0.1301*	-0.0979	-0.0803	-0.032	-0.0509	-0.0242	0.0129	-0.0926	-0.1390*	-0.1207*	0.0617	0.0328	0.0593	-0.1429*	0.2171*	0.1527*	0.2281*	0.1442*	0.0356	0.0036
37 Competing bidders	0.1217*	0.0248	-0.0268	-0.0045	0.0071	-0.0431	0.0467	0.0918	-0.1059*	-0.057	0.0572	0.0306	0.0606	-0.1155*	-0.0378	-0.0353	-0.0033	0.0366	-0.0203	0.0036
38 Divestment	0.0761	0.0504	-0.0527	-0.0298	-0.0979	-0.0938	0.3031*	0.3822*	-0.3244*	-0.3296*	0.1384*	0.1560*	-0.0208	-0.1327*	-0.0379	-0.1708*	-0.0295	-0.1698*	-0.2219*	0.0036
20 Efficiency motive	1																			
21 Vertical integration motive	-0.2541*	1																		
22 Diversification motive	-0.2102*	-0.1602*	1																	
23 Target size	0.2562*	-0.0869	0.0148	1																
24 Target OCF/TA	-0.0621	-0.064	0.0237	0.0312	1															
25 Target ROA	0.0262	0.0465	-0.0468	0.1791*	0.1008	1														
26 Target labour productivity	0.0563	0.0143	-0.1016*	0.1550*	0.0947	0.0376	1													
27 Target leverage	0.0366	0.0037	-0.0352	0.011	0.097	-0.0599	0.1161*	1												
28 Target run-up	-0.0573	-0.0027	0.0127	-0.1401*	0.1118*	0.0401	0.0511	-0.0873	1											
29 Acquirer size	0.1652*	0.0064	0.0294	0.6656*	0.0858	0.1228*	0.1056*	0.0642	0.0182	1										
30 Acquirer OCF/TA	0.0149	0.0686	-0.0266	0.0527	0.1289*	-0.0383	0.0219	-0.0041	0.0143	0.1177*	1									
31 Acquirer ROA	-0.0462	-0.0533	0.0545	0.1335*	0.1733*	0.1100*	-0.1045*	0.0733	0.035	0.2544*	0.0606	1								
32 Acquirer labour productivity	0.0466	-0.0373	-0.0137	-0.0176	0.0046	0.0241	0.0836	0.0371	-0.0651	-0.0578	-0.0465	-0.074	1							
33 Acquirer leverage	0.0946	-0.0449	0.012	0.1615*	0.0317	-0.0642	0.0131	0.1507*	-0.08	0.1870*	-0.0259	0.0059	-0.045	1						
34 Hostile	0.1003	0.0025	-0.0182	0.1896*	-0.0684	0.011	-0.0069	0.0432	0.0648	0.1019*	0.0482	-0.0467	-0.0284	0.1145*	1					
35 All-cash payment	0.02	0.0079	0.0839	-0.063	0.0303	-0.0087	0.0431	-0.0117	0.0058	0.2079*	-0.0313	-0.0161	0.0461	-0.0112	-0.0047	1				
36 Relative employment size	0.0202	-0.1054*	0.0384	0.0582	-0.0461	-0.0492	-0.1364*	0.0726	-0.5089*	-0.1386*	-0.1302*	0.2440*	-0.1402*	0.0745	-0.3206*	0.0745	1			
37 Competing bidders	0.022	-0.0308	0.0372	0.0608	0.0122	-0.0227	-0.0568	-0.0677	0.1472*	0.0684	0.0044	-0.0246	-0.0675	-0.058	0.2565*	0.0062	-0.0093	1		
38 Divestment	0.1900*	0.0545	0.0261	0.2481*	-0.0429	-0.0063	-0.0127	0.0208	-0.0296	0.1886*	-0.0066	-0.0438	-0.0803	0.0808	0.2075*	0.0596	0.0101	0.0947	1	
20 Efficiency motive	1																			
21 Vertical integration motive	-0.2541*	1																		
22 Diversification motive	-0.2102*																			