The Role of Bank Advisors in Mergers and Acquisitions

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Abstract

This paper looks at the role of both commercial and investment banks in providing merger advisory services. In this area, unlike some areas of investment banking, commercial banks have always been allowed to compete directly with investment banks. In their dual role as lenders and advisors to firms that are the target or the acquirer in a merger, banks can be viewed as serving a certification function. However, banks acting as both lenders and advisors face a potential conflict of interest that may mitigate or offset any certification effect. Overall, we find evidence supporting the certification effect for target firms. In contrast, conflicts of interest appear to dominate the certification effect when banks are advisors to acquirers.

In particular, the target earns higher abnormal returns when the target's own bank certifies the (more informationally opaque) target's value to the acquirer. In contrast, we do not find a certification role for acquirers. There are two possible reasons for these different outcomes. First, it is the target firm, not the acquirer, that must be priced in a merger. Second, acquirers predominantly use commercial bank advisors to obtain access to bank loans that may be used to finance the merger. Thus, we find that acquirers tend to choose their own banks (those with prior lending relationships to the acquirer) as advisors in mergers. However, this choice weakens any certification effect and creates a potential conflict of interest because the acquirer's advisor negotiates the terms of both the merger transaction and future loan commitments. Moreover, the advising bank's recommendations may be distorted by considerations related to credit exposure incurred in both past and future lending activity. The market prices these conflicts of interest; we find significantly negative abnormal returns for bank advisors when they advise their own loan customers in acquiring other firms.

1. Introduction

Financial intermediaries are specialists in information production and processing. As advisors to both targets and acquirers, financial institutions utilize their information gathering expertise to ascertain the reservation price of the merger counterparty, the potential for synergistic gains, as well as the risks of the transaction.

Commercial banks may be well positioned to offer these services if they have established lending and other customer relationships with either party to a merger. During the course of a long-term customer relationship, a commercial bank obtains private information about a firm's cash flows, financial resources, and other exposures that can be useful in estimating the future prospects of a proposed merger. Indeed, if the role of the financial advisor in a merger is to mobilize information, then commercial banks – especially those with prior lending relationships - potentially have a comparative advantage over investment banks in advising their customers – particularly since, until very recently, investment banks did not make commercial loans. The banking literature (see Chan, Greenbaum, and Thakor (1986) for example) suggests that information generated in the course of a banking relationship may be reusable and therefore transferable. This transfer is feasible because while SEC regulations and the U.S. bankruptcy code prohibit the transfer of information from an investment bank subsidiary to a related commercial bank subsidiary, there are no restrictions on the reuse of information obtained in the

¹ Investment banks may grant "bridge loans" particularly in the context of facilitating a merger. Since these loans are of short duration, granted for very specific purposes, they are not likely to produce the private information obtained by a commercial bank in the course of a long-term, generalized business lending relationship. We exclude the consideration of these less informative "bridge loans" from our analysis. Michaely and Womack (1999) consider another potential conflicts of interest for investment bank advisor stemming from the relationship between analyst recommendations and underwriting activity. Before the repeal of the Glass Steagall Act, this conflict did not apply to commercial banks because they could not offer full service investment banking services that included investment advice. See the 1994 Supreme Court decision involving Citicorp.

course of a standard banking relationship (e.g., on information flows from the bank's lending department to the investment bank).²

Following a parallel literature dealing with underwriting activities,³ we refer to a bank's ability to mobilize private information about a customer, and to use this information in supplying services such as merger advice to the customer, as the <u>certification effect</u>. Investment banks may also be privy to private information obtained, for example, in the course of underwriting activities. However, underwriting episodes are discrete and intermittent, corresponding to the relatively short time period surrounding the issue registration, offering period, and after-market support period. In contrast, commercial bank lending and other relationships are often long standing and continuous, requiring the ongoing monitoring of the firm's activities. All else being equal, we would expect that the selection and use of a commercial bank advisor in an M&A transaction provides a higher certification effect than that provided by traditional investment banks.⁴

There are, however, countervailing influences to the certification effect that may limit the effectiveness of commercial banks in providing merger advisory services. This is especially so if the bank advisor is faced with one or more conflicts of interest. For example, the target may have financial problems known privately only to its lenders (such as the major bank lender), or an acquirer may be financially weak to the private knowledge of the banker, and its ability to survive and pay off its bank debt may be enhanced through the acquisition of a target with a

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² In June 1997, the courts ruled in ADP v. Chase Manhattan Bank that "a bank has no per se obligation to refrain from such participation" as advisor to an acquirer (Western Resources) in a hostile attempt to take over Chase's banking customer ADP Ltd. (Michael Bender, *Investment Dealers' Digest*, June 30, 1997, p. 9-10.)

³ See Puri (1994, 1996), Ang and Richardson (1994), Kroszner and Rajan (1994), Gande, Puri, Saunders, and Walter (1997), and Hebb (1999).

⁴ See Fama (1985), Diamond (1991), and Rajan (1992) and the special issue of the Journal of Financial Intermediation (2000) for a discussion of the information generated in the course of relationship intermediation.

sizable free cash flow. In these situations, the commercial bank's certification may not be credible because of the bank's self-interest in assuring the completion of the merger. This conflict of interest effect is likely to be exacerbated in the case of hostile takeovers. For example, if a commercial bank customer (as a target) objects to an acquisition, perhaps because of entrenched managers' fear of loss of control, then the commercial bank may be either unable or unwilling to utilize fully its private information in advising a potential acquirer for fear of the loss of future commercial banking business should the merger actually fail to be completed. Moreover, a commercial bank may be able to attract merger advisory business only on the condition that bank loans are made available to the merger counterparties, or alternatively, a bank may be more willing to advise a firm to undertake an acquisition if it believes it can earn large fees from financing the merger through its lending department. These may constitute conflicts of interest to the extent that the bank's advice is skewed by the bank's concern about the profit it earns from its lending as well as is merger advisory services.⁵

The aim of this paper is to examine, empirically, whether the certification effect dominates the conflict of interest effect in the market for mergers and acquisitions advice, and to measure the relative effects on targets and acquirers of commercial bank participation as merger advisors. We compare stock market (abnormal) returns to acquirers and targets on merger deals where commercial banks have been the advisors relative to deals advised by a control group of top tier investment banks (Goldman Sachs, Credit Suisse First Boston, Salomon Brothers, and

⁵ The potential for conflicts of interest was raised in the case of Lehman Brothers, the advisor for Dynegy, the erstwhile acquirer of Enron Corporation in the context of repayment of a \$179 million swap transaction.

"...Lehman's dual agenda – pursuing a possible merger and in the same set of talks its own repayment – presents a possible conflict of interest, some investment-banking specialists say. That is because Lehman's interest in seeking repayment during the talks could have complicated Dynegy's ability to strike a deal....Of course, Lehman isn't the only firm acting in dual roles in Enron matters. Until recently, Citigroup Inc. and JP Morgan Chase & Co. had been acting as both merger advisors and lenders to Enron. Now that Enron has sought bankruptcy-law protection from creditors, those two banking firms have been precluded from serving as advisors because of their creditor status."

Morgan Stanley Dean Witter) as well as a control group of mid tier investment banks (Bear Stearns, Lehman Brothers, PaineWebber and Donaldson, Lufkin and Jenrette).⁶ In the investment bank control groups, there is no commercial bank advisor participation at all.⁷

When we control for prior banking relationships, we find evidence of a net certification effect for commercial banks. However, this effect holds only for commercial banks' role as M&A advisors to targets. Target firms are typically smaller and more informationally opaque firms than acquiring firms. Banks that advise target firms can reuse information obtained in the course of a prior banking relationship by certifying the value of the merger (e.g., whether the price the acquirer offers to pay for the target is appropriate). The target bank's private information about the *target firm* is particularly valuable because of information asymmetries that make it difficult to certify the value of the target, and because it is the target firm that must be priced in a merger. However, this certification effect is likely to be reduced if the target bank advises the acquirer, since the target's bank may be reluctant to reveal bad information about the target to the acquirer for fear that if the deal is not completed, the target will penalize the bank with the loss of its banking business. Indeed, we find that acquirer's abnormal returns are either negative or statistically insignificant both when the target's bank and the acquirer's bank advises the acquirer, and that the use of commercial bank advisors with prior banking relationships has no significant impact on acquirer abnormal returns.

Acquirers are not indifferent to commercial bank relationships, however. We find that if

Smith (2001), p. C1, C11.

⁶ The identities of the top tier and mid tier investment banks were obtained from Merger Advisory League Tables compiled by Thomson Financial and Garner and Kale (2001).

⁷ In the wake of the passage of the Gramm Leach Bliley Act of 1999, financial holding companies (FHC) can be formulated by merging commercial banks and investment banks. For the purposes of this study, we consider any financial institution with a substantial commercial bank subsidiary to be a "commercial bank." Thus, we classify Citigroup (an FHC) as a commercial bank.

an acquiring firm has had a prior lending relationship with a commercial bank, then the acquirer is more likely to utilize that bank as its financial advisor. This is not because of an informational certification effect, but rather due to the bank's implicit (or explicit) promise of bank loans to finance the merger transaction and post-merger transition. Thus, it is the combination of merger advisory services and access to bank credit that is the focus of acquirer concerns in choosing their financial advisor. This creates a potential conflict of interest for the bank advisors. Indeed, we find that bank advisor abnormal returns are significantly reduced when banks offer these "package deals" that combine loan commitments with merger advisory services.

Section 2 briefly reviews the extensive literature on mergers and acquisitions. In Section 3, we describe our methodology. The database is described in Section 4 and the empirical results are discussed in Section 5. Section 6 concludes.

2. The Literature

Several branches of the literature are relevant to our study. First, there is the literature concerning the role of advisors in creating (or destroying) value in mergers and acquisitions. Second, there is the literature comparing the role of investment banks with that of commercial banks in undertaking "investment banking-type activities." Third, there is the literature investigating the value of mergers and acquisitions *per se*. Rather than providing an exhaustive review, we examine selected papers' relevance to the issue at hand.

2.1 Do Advisors Add Value in Mergers?

There is a literature examining whether advisors add value to a merger. Bowers and Miller (1990) examine the relationship between an acquiring firm's stock returns and the choice of investment bank to determine whether first-tier investment banks generate better deals in

terms of value creation. They classified the following as first-tier investment banks: First Boston, Goldman Sachs, Merrill Lynch, Morgan Stanley, and Salomon Brothers. They report that total wealth gains are larger when either the target or acquirer uses a first-tier investment bank. The results suggest the importance of the advisor's credibility (reputation) in acquisitions.

Hunter and Walker (1990) find that merger gains relate positively to investment banking fees and other proxies for investment banker effort. However, McLaughlin (1990, 1992) reports that some incentive features of investment banking contracts can create conflicts of interest between an investment bank and its clients, suggesting the importance of a potential for a conflict of interest between advisors and clients in mergers and acquisitions.

Servaes and Zenner (1996) compare acquisitions that were completed in-house versus those that use investment bank advisors. They find that an investment bank is used in more complex transactions with asymmetric information, documenting the importance of the information collection process in mergers and acquisitions.

Building on the theoretical model in James (1992), Saunders and Srinivasan (2001) finds that merger advisory fees include a relationship premium that is consistent with the existence of switching costs borne by acquirers when they hire new advisors with whom they had no prior relationship. If merger fees are set competitively, an explanation for this relationship premium is a certification effect, whereby rents are paid to banks with superior information obtained in the course of a prior relationship. Saunders and Srinivasan (2001) also find that top tier advisors charge higher fees than lower tier investment banks, and that acquirers pay a relationship premium in merger fees that is highest for top tier advisors. Although Rau (2000) finds no impact of advisors on acquirer abnormal returns, he shows a positive relationship between investment bank market share and fees and deal completion rates. That is, top-tier investment

bank advisors create value by increasing the likelihood that the deal will be completed.

These previous studies examine only those mergers advised by investment banks. We extend the literature by examining whether a commercial bank's greater potential net certification ability contributes value to a merger or acquisition beyond that provided by traditional investment banks.

2.2 Investment vs. Commercial Banks Providing Investment Banking Services

The debate regarding financial services modernization and the elimination of the Glass-Steagall Act has fueled a number of academic studies contrasting the roles of investment banks to commercial banks. Similar in flavor, if not in substance, to our study is the literature on the potential for conflicts of interest in securities underwriting.

While the Glass Steagall Act has now been replaced, sits historic rationale can be traced, in part, to concerns that commercial bank underwriters have conflicts of interest that will encourage the public issuance of securities in order to reduce their own poor quality loan exposures. In general, empirical evidence has not supported the existence of such a conflict of interest. Kroszner and Rajan (1994), Ang and Richardson (1994), and Puri (1996), among others, find that the debt securities underwritten by commercial banks prior to Glass-Steagall's passage in 1933, were less likely to default than those underwritten by investment banks. In addition, yields tended to be lower and the credit quality higher for commercial bank-underwritten issues than for issues underwritten by investment banks. Moreover, no significant difference was found in the performance of the equities underwritten by investment banks during the 1920s as opposed to commercial bank affiliates. Indeed, Puri (1994, 1996) finds evidence of

⁸ The Gramm Leach Bliley Act of 1999 essentially eliminates the major barriers among banking, securities, and insurance activities.

a certification role for commercial banks as they enhance their reputations by reusing private information obtained in the course of banking relationships.

More modern (post-1990) evidence based on the limited debt underwriting powers for banks in Gande, Puri, Saunders, and Walter (1997), and equity underwriting powers in Hebb (1999) have tended to confirm the earlier evidence of a net certification effect for banks.

Although the Glass-Steagall Act did not prohibit banks from advising in mergers and acquisitions cases, the relevance of certification effects and of potential conflicts of interest, in the area of merger advisement, is the central empirical question being investigated in this paper.

2.3 The Value of Mergers and Acquisitions

Out of the exhaustive empirical literature on mergers and acquisitions, one result is highly robust. This is the empirical finding that target firms tend to experience positive abnormal returns upon merger announcements while acquirers post zero or negative abnormal returns.¹⁰

Thus, targets appear to obtain most of the expected merger and acquisition gains.¹¹

Target gains stem from many sources. The *corporate control hypothesis*, studied by Harris and Raviv (1988), Stulz (1988), Amihud, Lev, and Travlos (1990), and Franks and Mayer (1996) links merger gains to the reduction in agency costs in the market for corporate control. The *market power hypothesis* stipulates that mergers enhance the competitive position of the target [see Beatty et al. (1987) and Berger and Humphrey (1992)]. Berkovitch and Narayanan

¹⁰ Bank mergers are an exception to this generalization. For example, James and Weir (1987) find significant positive abnormal returns for acquirers in bank mergers. See Palia (1994) for a survey of empirical studies on bank mergers.

⁹ See Benston (1990) as well as the citations in footnote 2.

Existing literature on the post-merger performance of acquiring firms, however, is divided. Agrawal, Jaffe, and Mandelker (1992) find that stockholders of acquiring firms suffer a 10% loss over the 5-year post-merger period, and that neither the firm size effect nor the beta estimation problems are the cause of the negative post-merger returns. In contrast, Healy, Palepu, and Ruback (1992) find significant post-merger increases in operating cash flow returns. Linn and Switzer (2001) show that post-merger performance is better for cash financed deals.

(1993) find evidence of the *synergy motive* in mergers and acquisitions. Hubbard and Palia (1999) find synergistic gains to targets in the creation of internal capital markets within conglomerates created by a program of diversifying mergers and acquisitions.

Whereas targets must receive some expectation of gain in order to win the approval of their target shareholders for any merger, those acquirer firm managers, who are unconstrained by pressure from value maximizing shareholders, may embark on acquisitions that offer no ex ante gain to stockholders. The *managerial risk diversification hypothesis* [see Amihud and Lev (1981), Amihud and Kamin (1979), and Lloyd, Hand and Modani (1987)] postulates that acquiring firm managers undertake (value reducing) mergers in order to reduce their undiversifiable human capital investment in their firm. Evidence of this is shown in Amihud, Kamin, and Ronen (1983). In a European context, Cybo-Ottone and Murgia (2000) show that diversifying mergers are value reducing, whereas focusing mergers are value enhancing. In the *winner's curse* or *hubris hypothesis*, overly optimistic acquirers overbid for targets. For example, Roll (1986) shows that acquirers who overestimate the value of the target are more likely to successfully complete a merger, resulting in a decline in the acquirer's value to stockholders.

The question, unexamined prior to this paper, is how the choice of *financial advisor* impacts the distribution of gains between target and acquirer upon the announcement of a merger.

3. Empirical Methodology

3.1 Computing Abnormal Returns for Targets and Acquirers

To investigate the net certification role of commercial banks as merger and acquisition advisors, we compute standardized cumulative abnormal returns (SCAR) to both targets and

acquirers for a three-day window around the merger announcement date. Our estimates of 3-day abnormal returns, denoted (-1,+1), include both the day of the merger announcement, as well as one day before and after.¹² We test for the explanatory power of the advisor's identity, controlling for other deal-specific factors. Even if the advisor's identity is not publicly revealed on the merger announcement date, the market would reward well-designed and attractively-priced deals without necessarily knowing the advisor's role in producing the positive results.

Our estimation of target and acquirer abnormal returns follows well established procedures used in other event studies, such as Fama, Fisher, Jensen, and Roll (1969), Bradley, Desai, and Kim (1988), and Stulz, Walking and Song (1990). We estimate a single-index model using CRSP daily stock returns to compute expected (benchmark) returns. Specifically, market model parameters for both target and acquiring firms are estimated using 190 trading days of daily returns data beginning 250 days and ending 60 days before the first announcement of the merger. ¹³

3.2 Controlling for the Identity of the Advisor, Characteristics of Targets and Acquirers, and Deal-Specific Factors

The identity of the bank advisor and the credit/lending relationship¹⁴ between the bank advisor and target and/or acquirer is defined by four different dummy variables: *TB_BT* takes on the value 1 if the target's advisor is a commercial bank and if the bank advisor had a prior relationship with the target; *TB_BA* takes on the value 1 if the target's advisor is a commercial

¹² We present our results using the standard (-1,+1) window, although analogous results were obtained when using a wider (-5,+5) window.

We used the first announcement date for multiple or revised bid deals. If daily return data were unavailable for the full 250 days prior to merger announcement, then the normal estimation period was less than the full 190 days.
A credit/lending relationship exists if the bank has made loans to either merger counterparty at some date prior to the merger announcement date. The precise empirical definition of a credit/lending relationship is presented in Section 4.

bank and if the bank advisor had a prior relationship with the acquirer; *AB_BT* takes on the value 1 if the acquirer's advisor is a commercial bank and if the bank advisor had a prior relationship with the target; *AB_BA* takes on the value 1 if the acquirer's advisor is a commercial bank and if the bank advisor had a prior relationship with the acquirer. We distinguish between deals advised by top tier and mid tier investment banks and those advised by commercial banks through the use of the variable *DUMBANK*, which is a dummy variable that equals 1 for all commercial bank advised deals and 0 for deals advised by the investment bank control group. The dummy variable *TOPTIER* denotes all targets and acquirers in our top tier investment bank control group that obtain advice from at least one top-tier investment bank (Goldman Sachs, Credit Suisse First Boston, Salomon Brothers, or Morgan Stanley Dean Witter). The dummy variable *MIDTIER* indicates those deals using only mid tier investment bank advisors such as Bear Stearns, Lehman Brothers PaineWebber and Donaldson Lufkin and Jenrette (during the time periods when these firms were independent). There were no commercial bank advisors at all in the investment bank advisor control groups.

In our regression analysis, we also control for deal specific variables not related to the identity and relationship of the advisors to targets and acquirers. Several control factors are incorporated into the model to capture the impact on abnormal returns resulting from characteristics of the target, the acquirer, or the offer. These control factors are discussed next.

3.2.1 Control Factors

A robust result in the merger literature is that announcement returns to bidding firms who make cash offers are higher than when stock offers are made [see Travlos (1987)], since a bidder

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¹⁵ More than one of these variables could take on the value of one for any given observation. Thus, if $TB_BT = TB_BA = 1$ then the target advisor has had prior lending relationships with both target and acquirer.

with private information about the value of its own assets offers stock when its shares are overvalued by target shareholders. Recognizing this adverse selection effect, target shareholders reduce their estimate of a bidder's value. Thus, without some other benefit to target stockholders in receiving stock rather than cash as a means of payment, a "lemons problem" arises for stock offers.¹⁷ The means of payment in a merger and acquisition is incorporated in our model through the variable *PCTCASH* (a variable that reflects the percentage of the deal value that is paid for in cash). Previous studies suggest a positive coefficient on the *PCTCASH* variable.

Stulz, Walking, and Song (1990) find that the relationship between a target's abnormal return and the target firm's ownership structure depends on the relative power of the bidder to successfully complete the acquisition without competition from other bidders (i.e., the stronger the bidder -- in terms of either lower target management's ownership stake, larger bidder ownership stake, or fewer bidders -- the lower the target's abnormal returns). Our empirical proxy variable for this effect takes the form of *BVPREM*, which is defined as the initial offer price for the target over the target's book value of equity. Since a multiple-bidder auction for the target tends to offer a relatively large initial acquisition premium, we anticipate a direct relationship between *BVPREM* and target abnormal returns. This relationship is also consistent with Roll's (1986) hubris hypothesis. Following Doukas and Travlos (1988) and Kang (1993), who find evidence of positive abnormal returns for international acquisitions, we use a one-zero dummy variable denoting whether the deal is a cross-border merger or not (*CROSS*). Because integration of larger targets into the acquiring firm is likely to generate agency cost reductions in value, we incorporate the control variable *RELSIZE*, measured as the ratio of the market value of

¹⁶ These investment banks were chosen to be consistent with Bowers and Miller (1990).

¹⁷ Brown and Ryngaert (1991) shows that taxes should also have important implications for the bidder's decision

equity for the target to the acquirer. Rajan, Servaes, and Zingales (2000) show that as a firm becomes more diverse (measured empirically as the deviation in size across all firm subdivisions) internal capital may be misallocated within the firm due to inefficiencies as a result of the battle between competing divisions for scarce capital resources. Since integration of a relatively large target in the course of a merger is likely to accentuate the internal power struggle over capital allocation, we expect a negative relationship between *RELSIZE* and abnormal returns.

Cotter and Zenner (1994) document that abnormal returns are lower for hostile compared to friendly mergers, controlling for size (market value of equity), ownership factors, and other characteristics of the offer (e.g., whether there are multiple bidders and whether the target has a golden parachute). Consequently, we incorporate the variable *ATTITUDE* (hostile, neutral, or friendly) into our estimation. We also check for robustness using *CLOSE* (a dummy variable denoting whether or not the target is closely held), *MGMT* (denoting whether the target's management participated in the merger), and *PROTECT* (denoting whether the target firm had protective mechanisms such as golden parachutes or poison pills). The latter variable is also suggested by the findings of Comment and Schwert (1995) who showed higher takeover premiums for firms with anti-takeover provisions in place.

Dummy variables indicating the motive for the acquisition are included based on the findings of Berkovitch and Narayanan (1993), who suggest that synergy is the primary motive in those takeovers with positive total gains to both targets and acquirers, and that agency conflicts are the primary motive in takeovers with negative gains to both targets and acquirers. Targets may also be valuable because of their high profitability (proxied by *TPROFIT*), growth rate (proxied by *TGROWTH*), or Tobin's q (measured as the market price to book value of the target firm, *TOBINQ*).

regarding the means of payment, cash versus stock mixes.

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We control for the target firm's leverage ratio using the variable *TLEVER*. Finally, annual (time) dummy variables are used to differentiate mergers announced in each year from 1995 to 2000.

We estimate the following expressions for both targets and acquirers separately:

 $SCAR_i = f(TB_BT, TB_BA, AB_BT, AB_BA, DUMBANK, BVPREM, TGROWTH, TPROFIT, TLEVER, RELSIZE, DUMCASH, CROSS, ATTITUDE, YEAR) + <math>\varepsilon_i$.

where $SCAR_i$ is the 3-day standardized cumulative abnormal return to target and acquiring firm i and all control variables are as defined in Table 1.¹⁸

4. The Data

Mergers and acquisitions data were obtained from the Thomson Financial Securities Data Corporation (SDC) database. All mergers and acquisitions involving U.S. target firms over the period January 1, 1995 through December 31, 2000 were identified. We excluded all mergers involving financial firms as either target or acquirer. We formed a subset of deals consisting of merger transactions in which either side of the transaction (target or acquirer) or both list a commercial bank or its subsidiary as an advisor. We then conducted a Lexis/Nexis search on each of the targets and acquirers to determine whether there was a prior banking relationship with

¹⁸ In order to examine other variables considered in the merger literature, we conducted robustness checks of our model. We incorporated a control variable *TENDER* denoting whether a tender offer had occurred, since it has been established that successful tender offers may increase target shareholder wealth [see Jensen and Ruback (1983)]. In addition to the control variable *PCTCASH*, discussed in Section 3.2.1, we focused on several other methods of financing mergers and acquisitions. These included SFC (a dummy variable indicating the issuance of common stock to finance the acquisition), *SFCORP* (a dummy variable indicating the use of internally generated funds), *SFDEBT* (a dummy variable indicating the use of debt), and *SWAP* (a dummy variable denoting a stock swap). We also included an ownership variable, *BLOCK*, to denote block shareholdings, *MOE* (an SDC-designation of "merger of equals") and the variable *CASHFLOW* to measure free cash flow (computed as cash assets divided by total assets). We included a dummy variable, *MERGER*, for completed target acquisitions (denoted by a value of 1) in contrast to partial acquisitions, spin-offs, or split-offs (all denoted as 0). Following Saunders and Srinivasan (2001), a variable *FEES* controlled for total fees paid by both target and acquirer as a percent of transaction value. None of these variables turned out to be statistically significant and we do not present them in our regression results presented in Section 5.2.

¹⁹ Several commercial bank holding companies themselves acquired investment firms during the sample period. We included acquisitions advised by the investment firm as acquisitions advised by commercial banks if the deal was announced after the commercial bank acquired the investment firm. For instance, in April 1997 Alex-Brown &

any of the bank advisors. In this search, we examined SEC 10K, 10Q, and 8K filings, as well as annual reports, prospectuses, and other registered filings that dated back to January 1990 in order to determine whether the bank advisors had any prior credit/lending relationship with either of the parties to the merger.²⁰ If the bank advisor was listed in any of the SEC filings of the merger parties, we recorded a bank relationship dummy variable of one.²¹ If there was no mention of the bank advisor, but there was a description of other bank relationships, we recorded a bank relationship dummy variable of zero.²² If there was any ambiguity in defining the bank relationship for either the target or the acquirer, we recorded the relationship as missing. Using this procedure, we constructed the four dummy variables that distinguish among the four possible banking relationships: the target's bank advising the target (TB_BT), the acquirer's bank advising the target (TB_BA), the target's bank advising the acquirer (AB_BT), and the acquirer's bank advising the acquirer (AB_BA) .

To fill in some of the missing bank relationships, we obtained data on loan syndications from Loan Pricing Corporation (LPC). If LPC showed that a bank advisor participated in a loan syndication in any capacity (i.e., as an agent, arranger, or participant) prior to the merger announcement date, then we recorded that as a prior banking relationship. The LPC database included description of the role of the lender, the origination date of the loan syndication, and the purpose of the loan, among other descriptive variables. We use these variables to analyze the intensity of the lending relationship for the subset of deals that were included in the LPC

Company was acquired by Bankers Trust. Prior to that date, acquisitions advised by Alex-Brown were considered to be non-bank advised mergers. After that date, they were classified as bank advised mergers.

²⁰ Lexis/Nexis provides prospectuses and registration statements from April 1993 to the present only.

²¹ Because the SEC does not require firms to reveal specific details about their banking relationships, we could not utilize more detailed data about the nature of the relationship. Data obtained from Loan Pricing Corporation contained more detailed descriptions of the lending relationship.

We therefore avoided the problem of recording no relationship for companies that chose not to report any of their banking arrangements.

database.²³ We also used the more detailed LPC database to define the *ACCESS* indicator variable that takes on a value of 1 if the acquirer's bank is hired as an advisor and subsequently makes a loan to the acquirer up to one or two years after the merger announcement date.

Our sample includes only those firms whose shares were traded on NYSE, AMEX, or Nasdaq. In order to obtain a non-merger period, with which to estimate abnormal returns, we utilized returns for a full year prior to the start of our merger sample period of January 1995 through December 2000. Thus, daily stock returns over the period January 1, 1994 through December 31, 2000 were obtained from CRSP.²⁴ We verified the SDC announcement date using the *Wall Street Journal*, and used the date in the *Wall Street Journal* whenever there was a discrepancy.

Next, we constructed a control sample of deals advised by (1) top tier investment banks, defined to be Goldman Sachs, Credit Suisse First Boston, Salomon Brothers, and Morgan Stanley Dean Witter and (2) mid tier investment banks, defined to be Bear Stearns, Lehman Brothers, PaineWebber, and Donaldson Lufkin and Jenrette (during the time periods when each of these firms was independent). Deals were included in the control sample only if there were no commercial bank advisors for either the target or the acquirer. When all financial mergers and non-publicly traded companies were excluded, we were left with 189 deals²⁵ in the investment bank control sample.

Control variables were constructed from SDC, CRSP and COMPUSTAT. The tickers for

²³ Although LPC focuses on syndicated loans, it also includes some private placements and underwritten debt. However, since the SEC filings consider all bank lending relationships, we used the LPC database to fill in the missing observations from the more comprehensive Lexis/Nexis.

²⁴ The CRSP Permanent Number was used to obtain a continuous series of stock return data even if company name, ticker, or CUSIP changed.

²⁵ There were 189 targets and 175 acquirers in the control sample. The difference in the number of observations stems from deals in which there was no advisor chosen by either the target or the acquirer.

each acquirer and target provided by SDC were matched with the CRSP permanent numbers in order to obtain daily return data and market capitalization values as of the deal announcement date. Wherever necessary, COMPUSTAT data were used to fill in the values of control variables such as *TLEVER* (target debt/equity ratios) and *TPROFIT* (target return on assets). A list of definitions of all control variables is shown in Table 1.

The overall sample (including investment banks and commercial banks as advisors) consists of 488 targets and 495 acquirers. Table 2 displays key descriptive statistics. Targets (acquirers) hired bank advisors in 31.4 % (34.3%) of the deals. Out of the total number of mergers, 36.8% of the target advisors had either prior banking relationships with the target (22.5%) or the acquirer (14.3%). Table 2 also shows that 27.9% of the acquirer advisors had prior banking relationships with either the target (12.9%) or the acquirer (15%). The control group of top tier and mid tier investment banks advised 38.7% of the targets and 35.4% of the acquirers. Most of the mergers in our sample (62.1%) took place in the years 1998 (23.6%) and 2000 (38.5%). Finally, most deals (93.4%) were classified by SDC as either friendly or neutral. However, average target abnormal returns were significantly (at the 10% level) higher for hostile deals (a mean abnormal return of 5.12%) than for friendly/neutral deals (a mean of 3.32%). ²⁹

²⁶ There are more targets than acquiring firms because some acquirers are foreign firms that are not traded on either NYSE, AMEX, or Nasdaq. However, most foreign acquirers are traded on US stock exchanges. Excluding all foreign acquirers would have resulted in the loss of more than 100 observations. Thus, we control for cross border acquisitions in our analysis.

²⁷ Table 2, Panel C reports descriptive statistics for control variables. There were 684 observations in the merger database, but data availability on CRSP and Compustat limited our final sample to 488 targets and 495 acquirers.

²⁸ Although the Gramm-Leach-Bliley Act of 1999 (permitting investment banks to acquire commercial bank subsidiaries) took effect in March 2000, we find no impact on our results for the pre- versus the post-GLBA periods.

²⁹ We performed pairwise mean difference tests using both the pooled and Satterthwaite methods to control for the possibility of unequal variances. Whenever statistically significant, the results of pairwise mean difference tests are reported in Table 2. The pair of means to be compared is marked with the same letter in the superscript of the standard error reported in Table 2. The significance level is denoted by a 1 (2) for the 5% (10%) levels.

5. Empirical Results

Consistent with the literature to date, Table 2, Panel A shows that target abnormal returns are on average positive and statistically significant at the 1% level (averaging 3.38%), whereas acquirer abnormal returns are either negative (on average –0.31% significant at the 1% level) or insignificantly different from zero. In particular, the average 3-day (-1,+1) acquirer abnormal return of –0.60% is significantly negative (at the 1% level) for deals advised by top tier investment banks, suggesting that some of the significantly positive gains to targets may come at the expense of acquirers.³⁰ In contrast, acquirer abnormal returns (0.28%) for those deals advised by mid tier investment banks are significantly higher (at the 10% level) than for those deals advised by either top tier investment banks or commercial banks (3-day acquirer abnormal returns average –0.35%). This result is consistent with the results of Rau (2000) and Hunter and Jagtiani (2001) who find that top tier investment banks tend to advise acquirers to pay too much for target firms.

Table 2 Panel A also shows that target abnormal returns over the (-1,+1) period are significantly (at the 1% level) positive for all bank advised deals, whereas acquirer abnormal returns tend to be either significantly negative or insignificantly different from zero.

Interestingly, acquirer returns are highest when the acquirer does not use any financial advisor (a mean of 0.21% which is significantly higher at the 5% level than the mean acquirer abnormal returns when the acquirer uses either a commercial bank or an investment bank as financial advisor). In contrast, the target's abnormal returns are reduced to a mean of 2.80% when the

³⁰ Acquirer abnormal returns are significantly lower (at the 5% level) for those deals advised by top tier investment banks than for those deals advised by either mid tier investment banks or commercial banks which have an average abnormal return to the acquirer of –0.19% (significant at the 10% level). This is consistent with Srinivasan (1999) who finds that acquirers pay top tier investment banks significantly higher fees for merger advice, thereby reducing acquirer abnormal returns.

target does not hire a financial advisor.³¹

5.1 Target and Acquirer Abnormal Returns Without Controlling for Banking *Relationships*

The regressions presented in Table 3 examine the 3-day abnormal returns controlling for deal characteristics, but not controlling for the existence of prior banking relationships. Although we examine all the control variables listed in Table 1, we present the results for only the most consistently significant variables in Tables 3-5. These control variables can be divided into two groups: (1) Deal characteristics such as *PCTCASH* (the percentage of cash used to finance the merger), BVPREM (the premium of the price over the target's book value), ATTITUDE (=0 if friendly or neutral, =1 if hostile)³², COMPLETE (=1 if the deal is completed, 0 otherwise), and CROSS (=1 if the acquirer is a non-US firm, 0 otherwise); and (2) firm characteristics such as TGROWTH (the target firm growth rate), TPROFIT (the target firm's return on assets), and TLEVER (the target firms' long-term debt to equity ratio). Descriptive statistics for these control variables are shown in Panel C of Table 2.

The regressions presented in column (1) of Table 3 are consistent with the Panel A, Table 2 finding that the identity of the financial advisor does not have any significant impact on target abnormal returns. That is, the coefficients on the DUMBANK (=1 if there is at least one commercial bank advisor and 0 otherwise) and MIDTIER variables (=1 if all advisors are mid tier investment banks and 0 otherwise) are insignificantly different from zero. However, controlling for deal and firm characteristics, the positive and significant (at the 5% level) coefficient on the DUMBANK variable in column (2) of Table 3 shows that target abnormal returns are highest for

³¹ However, the mean difference is not statistically significant.

³² We tested the cross product of the *ATTITUDE* variable with the relationship dummy variables and found no

mergers advised by commercial banks. This result suggests that commercial bank financial advisors play some role in enhancing target firm abnormal returns. Moreover, consistent with the literature, we find that cash financing has a strong positive impact (significant at the 1%) level on target abnormal returns.

Panel A of Table 2 shows that without controlling for prior banking relationships or deal characteristics, the average acquirer 3-day abnormal return is significantly lower for deals advised by top tier investment banks. The uncontrolled regression shown in column (3) of Table 3 is consistent with that finding. That is, the coefficients on the *DUMBANK* and *MIDTIER* variables are significantly positive (at the 10% level or better) indicating that acquirer returns are higher for deals advised by either commercial bank or mid tier investment bank advisors than for the omitted top tier investment bank advisor group. However, this result is not obtained when we control for deal characteristics. That is, the coefficients on the *DUMBANK* variable and *MIDTIER* are insignificant in the regressions presented in column (4) in Table 3.

The results for the control variables presented in column (4) in Table 3 are consistent with previous studies. Acquirer returns are positively related to *PCTCASH* (significant at the 1% level), and *BVPREM* (significant at the 5% level) and negatively related to *TGROWTH* and *TPROFIT* (both significant at the 5% level). Interestingly, acquirer returns are significantly higher (at the 5% level or better) for deals announced in 1995, 1996, 1998, and 1999 as compared to the omitted base year of 2000.

In summary, the results in Table 3 suggest that commercial bank advisors enhance the abnormal returns earned by target firms upon merger announcement, but not those of acquirers. However, the results in Table 3 do not control for prior banking relationships between advisors

significance.

and merger counterparties. In Section 5.2.1, we examine average abnormal returns for both the target and acquirer controlling for prior lending relationships. In Section 5.2.2, we report results of multivariate regressions of lending relationships and control variables on target abnormal returns. In Section 5.2.3, we perform the same multivariate regression analysis, but instead with acquirer abnormal returns as the dependent variable. We summarize our findings on the relationship between lending relationships and acquirer and target abnormal returns in Section 5.2.4.

5.2.1 Mean Target and Acquirer Abnormal Returns **Controlling** for Banking Relationships

Panel A in Table 2 presents average 3-day abnormal returns for both targets and acquirers without controlling for the existence of prior banking relationships between the advisors and the merger counterparties. In Table 2, Panel B, we show how lending relationships impact average 3-day abnormal returns for targets and acquirers. The mean target abnormal return for deals in which the target advisor has had a prior banking relationship with the target (*TB_BT* =1) is 4.25%, significant at the 1% level. This is significantly higher (at the 10% level) than the mean target abnormal return for no prior relationship (i.e., *TB_BT*=0) mergers of 3.12%, suggesting that target firms earn higher abnormal returns if they hire their own commercial bank as advisor. Acquirer returns tend to be significantly negative for all relationships. However, *acquirer* returns are lowest (mean difference significant at the 10% level or above) when both the target and acquirer advisors have prior banking relationships. Moreover, the use of the *acquirer's bank* as the target's advisor is the most damaging to the acquirer's abnormal returns, with a mean of –0.69% which is significantly lower (at the 5% level) than the mean of –0.22% for deals in which the target advisor has not had a prior relationship with the acquirer. This result suggests that the

target firm's access to information about the acquirer is potentially damaging to the acquirer in merger negotiations.

Acquirer returns are highest (insignificantly different from zero, rather than significantly negative) when the acquirer's bank is chosen as an advisor that subsequently lends to the acquirer either one year after the merger announcement (for a mean of –0.49%, insignificantly different from zero) or up to two years after the merger announcement (statistically insignificant mean of –0.46%). Thus, the contribution of financial advisors to acquiring firms does not appear to emanate from increased abnormal returns obtained in the context of the zero sum merger price negotiation. Rather, these results suggest that acquirers gain when their bank is chosen as an advisor because this enhances the likelihood that the advisor will subsequently finance the transition period during which the merger is consolidated.³³

5.2.2 Target Abnormal Returns Controlling for Banking Relationships

Table 4 shows that target abnormal returns are affected by prior banking relationships. The narrow regression results presented in Table 4, column (1) show that targets benefit from hiring their own banks as advisors in mergers and acquisitions, as denoted by the dummy variable TB_BT . Regressing the four relationship dummies (TB_BT , TB_BA , AB_BT , and AB_BA) on target abnormal returns yields a positive coefficient for TB_BT (significant at the 5% level). All other relationship dummy variables are statistically insignificant. Thus, the nature of the prior relationship between the bank advisor and its merger counterparty is important in determining the size of a target's abnormal returns. Further, the addition of control variables does not eliminate the impact of bank relationships on a target's abnormal returns, but rather

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³³ This result may also be consistent with a "double certification" effect, in which the bank certifies the value of the deal by both advising the merger and committing to future lending. However, despite this certification, acquirer

enhances its significance. In both columns (2) and (3) of Table 4, the *TB_BT* coefficient remains statistically positive and significant at the 1% level when other control variables are added.

Results for the control variables shown in columns (2) and (3) of Table 4 are consistent with the literature that show that cash financed mergers have significantly (at the 1% level) higher target abnormal returns, as denoted by the positive coefficients on *PCTCASH*. None of the other control variables are statistically significant.

5.2.3 Acquirer Abnormal Returns Controlling for Banking Relationships

Table 5 analyzes acquirer abnormal returns controlling for banking relationships. In the narrow regression results shown in column (1) of Table 5 none of the relationship variables is significant, but the negative coefficient on the *TOPTIER* variable (=1 if at least one advisor is a top tier investment bank and there are no commercial banks, 0 otherwise) is significant at the 10% level. This is consistent with the means presented in Panel A of Table 2 showing that average abnormal returns are lowest for the acquirer when the advisors are top tier investment banks. However, although this result holds in column (2) of Table 5 (when control variables are added), it is not statistically significant in column (3) of Table 5 when the full set of control variables (including year dummy variables) are entered as explanatory variables.

Table 5 presents some evidence that the gains to targets from hiring their own bank may come at the expense of acquirers. The negative coefficient on TB_BT (significant at the 10% level or better) in columns (2) and (3) of Table 5 shows that the target's gain in merger negotiations is the acquirer's loss. That is, if *targets* use their banks to certify a higher firm value, then the costs of the acquisition, and therefore the abnormal returns to the *acquirer* are

abnormal returns are still insignificantly different from zero suggesting that the conflict of interest effect dominates.

decreased.34

Introduction of the control variables into columns (2) and (3) of Table 5 indicates that the coefficient on *PCTCASH* is significantly positive (at the 1% level). All other control variables show similar coefficients to the model presented in column (4) of Table 3 with the exception of the merger year effect. Acquirer abnormal returns are highest for mergers announced in 1995 and 1996 as compared to the base case year 2000, as evident from the significantly positive (at the 5% level) coefficients on the *D95* and *D96* variables.³⁵

5.2.4 Summary of Tests Assessing the Contribution of Prior Banking Relationships to Target and Acquirer Abnormal Returns

There are two major results that are consistent throughout Tables 2, 3, 4, and 5, as well as in other robustness tests not discussed above.³⁶ The first is that target firms earn significantly higher abnormal returns upon a merger announcement when they hire their own banks as their merger advisor. We interpret this result as evidence of a bank certification role in merger advisement for the more informationally opaque target firms. That is, the target can negotiate a better price if its own bank certifies its value.

The second major finding is that using commercial banks as advisors appears to play no role in impacting acquirer abnormal returns. That is, we find no evidence of a certification effect

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³⁴ One possible reason that acquirers may not benefit from prior banking relationships may be that the target advisor uses its information asymmetrically to benefit its <u>own</u> client (which is the target), thereby certifying that an acquirer's bid price is too low, but not that it is too high.

³⁵ The *ACCESS* control variable (which takes on a value of 1 (0 otherwise) if the acquirer's bank lends to the acquirer up to one year after the merger announcement) is insignificant in all models presented in Table 5, because the market may not know of these future loans upon merger announcement.

³⁶We performed robustness tests using all of the control variables presented in Table 1. Moreover, we tested whether the bank advisor's certification effect was more important for deals that are relatively complex such as those involving tender offers or stock swaps. When we tested this hypothesis by segmenting the sample of commercial bank-advised mergers into subsamples of commercial bank-advised deals both with and without tender offers, as well as subsamples both with and without stock swaps, we found support for our basic result that targets increase their abnormal returns by hiring their own banks as advisors.

for bank advisors that have had prior lending relationships with the acquirer. However, although acquirer abnormal returns are not significantly affected by the existence of a prior banking relationship, the acquiring firm is not indifferent to the choice of financial advisor as is discussed in the next section. In Section 5.3, we examine the factors that impact the acquirer's choice of merger advisor.

5.3 The Choice of Financial Advisor

Up until this point, we have made the implicit assumption that the choice of an advisor is exogenous. However, the identity of the merger advisor may be endogenously determined by the intensity of prior banking relationships. For example, the existence of a prior lending relationship proved critical in the choice of financial advisor in the (since abandoned) Enron Corporation – Dynegy merger announced in November 2001. According to the *Wall Street Journal*, November 28, 2001, page C1:³⁷

JP Morgan Chase & Co. and Citigroup Inc. have emerged as prominent financiers and cheerleaders behind the problem-plagued [Enron-Dynegy merger] transaction, putting hundreds of millions of their own money into Enron in hopes of keeping the deal alive. ... Each bank has commitments outstanding to Enron, in the form of various loans, of roughly \$700 million to \$800 million, according to officials familiar with the matter, and roughly half of that is in unsecured debt.... Goldman Sachs Group, an investment bank that doesn't traditionally extend large loans to clients, was denied a piece of the merger business because it declined to extend the sort of loans that JP Morgan and Citigroup provided last week.

Access to credit appears to be an important motive influencing the choice of merger advisor for an acquirer. Thus, acquirers may prefer to hire commercial bank advisors, particularly those with lending relationships (to either of the merger counterparties), because they

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³⁷ We use the Enron-Dynegy merger (although it is not part of our sample) as an illustration, although it is far from the only case. For example, JP Morgan Chase and Citigroup offered a generous financing package in order to attract the merger advisement business of Lucent away from their long-standing investment bankers. This is an indication of a bank conflict of interest documented in Section 5.4.

are in a position to make loans to the merged entity. To examine this further, we test the link between choice of merger advisor and lending relationships using a binomial logit model shown in Table 6. The dependent variable *S* takes on a value of 0 if the merger advisors to both the target and the acquirer are either investment banks or commercial banks with no prior lending relationships to either merger party. Otherwise S equals 1 if either the target or the acquirer financial advisor is a commercial bank with a prior lending relationship to either of the merger counterparties.³⁸

The independent variables in the logit model in Table 6 depict the intensity of the prior banking relationship. We use the Loan Pricing Corporation database (LPC) to measure relationship intensity.³⁹ There are three prior relationship intensity variables: *LENDER*, *DURATION* and *PURPOSE*. *LENDER* takes on three possible values: 2 if LPC records that the lender was an agent or arranger of the loan syndication, 1 if LPC records that the lender was only a participant in the loan syndication, and 0 if there was no lending relationship. Thus, the higher the value of *LENDER*, the more intense the prior banking relationship. We examine the *LENDER* variable for each of the banking relationships (*TB_BT*, *TB_BA*, *AB_BT*, *AB_BA*) independently, i.e., *LENDER_TBBA* denotes the intensity of the lending relationship between the target advisor and the acquiring firm.

The second independent variable, *DURATION*, denotes the time period between the merger announcement date and the origination date of the *earliest* loan syndication for both the

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³⁸ We also tested a disaggregated model (not shown) that examined the target's choice independently of the acquirer's choice of financial advisor. We found that there was no significant impact of the prior lending relationship on the target's choice. This is consistent with the target's concern with maximizing its abnormal return upon merger announcement. In contrast, the acquirer would be concerned with access to capital to finance the integration of the two firms. We find that the intensity of the prior lending relationship has a significant impact on the acquirer's choice of financial advisor.

³⁹ Since we have LPC data for only a subset of the database, we estimate the model in Table 6 using 241 observations.

target and the acquirer involving each bank advisor (denoted as TB_BT , TB_BA , AB_BT , and AB_BA). Thus, the longer DURATION, the more long-lived the prior banking relationship. Finally, PURPOSE is an LPC variable that takes on three possible values: 2 if the loan was made for general business purposes, 1 if it was merger related and 0 if there was no loan relationship. Since we are interested in the bank's access to private information about the firm's activities prior to the merger announcement, we hypothesize that the higher the PURPOSE variable, the greater the information content generated by the lending relationship. That is, merger related loan syndications tend to have somewhat narrow focus and are of limited duration. Instead, general business lending allows the bank to obtain information about the day to day investment and financing activities of the firm. Finally, we define all three variables LENDER, DURATION and PURPOSE for non-advisor banks as well as advisor banks.

The results presented in Table 6 confirm the hypothesis that the more intense the prior lending relationship, the greater the likelihood that the commercial bank is chosen as financial advisor. Moreover, it is the intensity of the prior lending relationship with the acquirer that determines the choice of financial advisor, in contrast to the role of the prior lending relationship with the target that generated the certification gains documented in Section 5.2. That is all three variables *LENDER*, *DURATION* and *PURPOSE* are positive and significant (at the 5% level) for the *AB_BA* relationship, suggesting that the more intense the prior relationship between the acquiring firm and the acquirer's bank advisor, the greater the likelihood that a commercial bank will be chosen as merger advisor. The only other relationship variable that is statistically significant (at the 10% level or better) is the *LENDER* variable for all possible banking relationships *TB_BT*, *TB_BA*, and *AB_BT*. This suggests that the more lending relationships that exist for both target and acquirer, the more likely they are to choose a commercial bank advisor.

Finally, we examine the merger counterparties' lending relationships with banks <u>not</u> chosen as merger advisors and denote them *Nonadvisor* in Table 6. We find that most *Nonadvisor* variables are insignificant, with the exception of *Nonadvisor Purpose_A*, which denotes the relationship between the acquirer and nonadvisor commercial banks. The more that the acquirer has borrowed for general business purposes prior to the merger announcement date, the greater the likelihood that a commercial bank advisor will be chosen.

Although the *LENDER*, *DURATION* and *PURPOSE* variables measure the intensity of prior banking relationships, the existence of past lending does not necessarily guarantee future lending by the bank advisor. To address this issue, we constructed another dummy variable, *ACCESS*. This variable takes on a value of 1 (0 otherwise) if the acquirer's bank is chosen as a financial advisor (by either the target or the acquirer) *and* the bank lends to the acquirer at any time up to one year after the merger announcement date. Table 6 shows that the coefficient on this variable is positive and significant at the 5% level, indicating that the access to financing in the future offered by commercial banks with prior lending relationships increases the likelihood that a commercial bank is chosen to advise the merger counterparties. These positive results on the *ACCESS* variable were robust for different specifications of the logit model. The model's chi-square likelihood ratio test for goodness of fit was 87.8818, significant at the 1% level. Thus, we conclude that the relationship between the commercial bank advisor and the acquiring firm primarily impacts the acquirer's access to credit rather than the acquirer's abnormal returns.

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⁴⁰ We also tested a two year *ACCESS* variable (=1 if there was a loan to the acquirer within two years after the merger announcement) and obtained the same results as reported in Table 6.

⁴¹ The *ACCESS* variable is included in the acquirer abnormal return regressions presented in Table 5. The coefficient is insignificant, perhaps because the market was unaware on the merger announcement date that the financing would take place in the future.

⁴² Note that the acquirer is not necessarily constrained to follow value-maximizing policies if agency problems permit management to pursue value-reducing mergers. See discussion in Section 2.3.

5.4 Bank Advisor Abnormal Returns

In Section 5.2, we found evidence of a bank certification effect in which banks that had prior lending relationships with target firms used their private information to enhance target abnormal returns. In Section 5.3, we found that acquirers, in contrast to targets, are primarily concerned about access to credit at and after the merger announcement date. Thus, whenever possible, targets hire their own banks as merger advisors in order to maximize their abnormal returns, whereas acquirers hire their own banks as merger advisors in order to maximize the likelihood that financing will be forthcoming.⁴³ This may or may not be consistent with value maximization goals. In this section, we examine the impact of prior banking relationships on bank advisor abnormal returns.

We estimate the market model over the period January 1, 1995 through December 31, 2000⁴⁴ for the eight (publicly traded) commercial bank advisors most active in our sample: Citicorp (before Travelers), Citigroup, FleetBoston, BankBoston (before Fleet), Bankers Trust (before Deutschebank), Chase Manhattan (before JP Morgan), JP Morgan (before Chase), and Bank of America (including Nationsbank). We estimate a pooled return generating model for all eight bank advisor returns using a single market index (the CRSP equally weighted index) ⁴⁵ and a dummy variable *EVENT PERIOD* that takes on a value of 1 for each day before, on, and after a merger announcement in which the bank serves as advisor to either counterparty (i.e., we define a

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⁴³ Of course, this may not be possible if the target or acquirer bank does not offer merger advisement services. Since smaller firms gravitate to smaller banks [see Berger and Udell (1995)] that are less likely to offer this service, this is more likely to be a constraint for targets than for acquirers.

⁴⁴ We used all bank advisors in our sample that were publicly traded on either NYSE, AMEX, or Nasdaq for any length of time during our sample period. Thus, we include banks that are no longer in existence such as JP Morgan Bank and BankBoston.

⁴⁵ We also estimated a disaggregated return generating function that allowed the betas to vary across banks. We do not present those results since they are quite similar to those presented in Table 7. We were unable to estimate a SUR simultaneous equations model because the estimation period varied across bank advisors.

3-day event window corresponding to the (-1,+1) event period). Control variables such as *SIZE*, *RELSIZE* and *ACCESS* were used.

Table 7 shows that the impact of prior banking relationships on bank advisor abnormal returns is evaluated using two different approaches. First, we utilize the bank relationship dummy variables, TB_BT , TB_BA , AB_BT , AB_BA , to estimate the bank advisors' abnormal returns upon merger announcement for deals with various prior lending relationships. All relationships are insignificant, with the exception of AB_BA that has a negative coefficient, significant at the 5% level. However, AB_BA denotes that the acquirer's advisor is a bank with a prior relationship with the acquirer, but does not specify which bank is that advisor. Thus, we add two dummy variables DTARADV (DACQADV) which take on a value of 1 if the dependent variable bank is the target's (acquirer's) advisor. The negative coefficient in column (1) of Table 7 (significant at the 5%) level shows that bank abnormal returns decline significantly when the bank provides merger advice to acquirers with whom they have had a prior banking relationship.

This result is robust across all model specifications. For example, in column (2) of Table 7 we explicitly define the bank's relationship to both the target and acquirer. For example, the coefficient on the $TB_BT \times DTARADV$ variable denotes the impact on bank abnormal returns of advising the target in a merger if the bank has had a prior banking relationship with the target. Thus, the negative coefficient on $AB_BA \times DACQADV$ (significant at the 1% level) indicates that bank abnormal returns significantly decline if the bank offers merger advice to an acquirer with which the bank has had a prior banking relationship. The market, overall, penalizes a bank for advising its own customer in a merger if that bank customer is an acquirer.

This result can be understood by recalling that the acquirer's incentive to hire its own commercial bank as merger advisor was access to credit (see Section 5.3). The market is concerned about a potential conflict of interest as commercial bank advisors continue lending to acquirers in return for merger advisory fees. The advisor's implicit (or explicit) promise to provide credit is viewed as a potential conflict of interest by the market and weakens any perceived profits resulting from merger advisory fees; i.e., losses on future loan commitments (as well as related adverse reputational effects) may more than offset merger advisory fees. Using the Enron-Dynegy merger as an example, from the *Wall Street Journal*, November 28, 2001, page C15:

JP Morgan and Citigroup, who have served as the top underwriters of [Enron's] debt, would rather avoid being blamed for letting Enron's debt go bad. Even more importantly, they also hold their own portion of that debt. Thus, both banks recently provided an additional credit line to Enron totaling \$1 billion....[S]peaking privately, bankers concede that a failure of the Enron deal would smart beyond what the damage might be to the banks' loan portfolio. 'If it falls apart,' says Mr. Hayes, the Harvard professor, 'it will be a source of embarrassment.'

Of course, the Enron-Dynegy deal did subsequently fall apart in November 2001, thereby validating the market's concerns about bank conflicts of interest when banks provide merger advice to their own clients in the course of an acquisition. Indeed, on the day after the announcement of the Enron bankruptcy filing, Citigroup's stock price declined more than 2% and JP Morgan Chase's stock price fell by more than 3%.

6. Conclusions

This paper examines the role of commercial banks as advisors to merger participants. If the role of a financial advisor in a merger is to mobilize information, then commercial banks

⁴⁶ The abnormal return to the bank of advising its own customer in an acquisition is the sum of the coefficients on

potentially have a comparative advantage in advising their banking customers as compared to non-bank advisors (i.e., traditional investment banks). We refer to this as the bank certification effect. All else being equal, we would expect that access to information generated in the course of a lending/credit relationship would enhance the merger counterparty's abnormal return upon announcement of a merger. However, there is a countervailing influence to the certification effect in that the commercial bank may be faced with a conflict of interest that diminishes the value of any such certification effect. In particular, the bank may be unable to credibly relay information to the market and investors at large if there is concern that the bank's merger advice is clouded by other objectives, such as the repayment of outstanding loans and potential profits from future lending activity. Alternatively, the bank's lending decisions may be distorted by the bank's desire to capture merger advisory fees. Whichever effect predominates determines whether using commercial bank advisors increases or decreases acquirer's and/or target's abnormal returns in mergers and acquisitions.

We examine empirically this issue using a sample of 488 merger deals announced during the time period from January 1, 1995 through December 31, 2000. Of these sampled mergers, 299 utilize one or more commercial bank advisors who advise either the target, or the acquirer, or both. The other 189 sampled merger deals constitute our investment bank control group in which there are no commercial bank advisors, and both the target and the acquirer hire either top tier or mid tier investment bank advisors.

We find evidence of a bank certification effect for target firms only. This certification effect takes the form of increased abnormal returns to targets whenever their merger advisor is their own bank (with whom the target has had a prior banking relationship). In contrast, acquirer

AB_BA and DACQADV, or -0.0121 for an average decline in bank advisor abnormal returns of 1.21%.

abnormal returns are either negative or insignificantly different from zero in all cases. Moreover, acquirers appear to utilize prior lending relationships to direct their choice of advisor. The more intense the prior banking relationship between the acquirer and the bank, the more likely it is that that bank will be chosen to advise the acquiring firm in a merger. This is because the acquirer extracts implicit or explicit commitments regarding access to bank loans in the future post-merger period. This creates a potential conflict of interest, which is priced by the market in the form of a significantly negative impact on bank abnormal returns upon announcement of a merger in which the acquirer's advisor is the acquirer's bank.

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Table 1. Definition of Variables

TB_BT	Dummy variable =1 if the target's advisor is a bank which has a prior banking relationship with the
	target; 0 otherwise.
TB_BA	Dummy variable =1 if the target's advisor is a bank which has a prior banking relationship with the
	acquirer; 0 otherwise.
AB_BT	Dummy variable =1 if the acquirer's advisor is a bank which has a prior banking relationship with
	the target; 0 otherwise.
AB_BA	Dummy variable =1 if the acquirer's advisor is a bank which has a prior banking relationship with
	the acquirer; 0 otherwise.
TOPTIER	Dummy variable =1 if at least one advisor is a commercial bank; =0 if there is at least one top tier
	investment bank (i.e., Goldman Sachs, CSFB, Salomon, or MSDW) advising target/acquirer, and no
	commercial bank advisors.
MIDTIER	Dummy variable =1 if all advisors are mid tier investment banks (i.e., Bear Stearns, Lehman
	Brothers, Lazard Freres, Paine Webber, etc.), and no commercial bank advisors.
PCTCASH	Percentage of cash used to finance the deal (percent).
BVPREM	Offering premium over target's book value (market price/book value in percent).
ATTITUDE	Dummy variable=1 if the deal is friendly; 0 if it is neutral; -1 if it is hostile (as designated by SDC).
CROSS	Dummy variable=1 if the merger crossed borders; 0 if not.
TGROWTH	Target firm growth rate (as measured by the 1-3 year annualized percent growth rate in either cash
	flows or earnings per share, whenever available)
TPROFIT	Target firm return on assets (pretax income/total assets in percent).
TLEVER	Target firm leverage (ratio of target long-term debt shareholders equity in percent).
COMPLETE	Dummy variable=1 if completed deal; 0 otherwise.
RELSIZE	Relative firm size (target firm market cap/acquirer market cap as of merger announcement date in
	percent).
ACCESS	Dummy variable=1 if the acquirer's bank is hired as an advisor and lends to the acquirer up to 1 year
	after the announcement date; 0 otherwise.
ROBUSTNESS VA	ARIABLES
MERGER	Dummy variable=1 if the merger is for complete target acquisitions; =0 if partial acquisition.
PROTECT	Dummy variable=1 if there are protective mechanisms such as poison pills, defensive
	recapitalization, scorched earth defenses, etc.
SFC, SFCORP,	Dummy variable=1 if financing includes corporate stock (SFC), internal funds (SFCORP), debt
SFDEBT, SWAP	(SFDEBT), SWAP (stock swap).
CASHFLOW	Target Firm value minus cash assets divided by total assets (percent).
FEES	Total fees paid to target and acquirer advisors.
CLOSE	Dummy variable=1 if the target was closely held; 0 if not.
TOBINQ	The target firm's market price divided by book value four weeks prior to merger announcement date
	(percent).
MGMT	Dummy variable=1 if the target's management was involved in the merger
BLOCK	Dummy variable=1 if the target has block holdings of stock; 0 otherwise
TENDER	Dummy variable=1 if there was a tender offer; 0 otherwise
MOE	Dummy variable=1 if the merger was a merger of equals; 0 otherwise

Table 2. Panel A: Overall Descriptive Statistics

Control Variables	(-1,+1) Target SCAR		(-1,+1) Acquirer SCAR		
	Control	Variable	Control Variable		
	NO=0	YES=1	NO=0	YES=1	
All Observations		488 deals		495 deals	
		3.38%***		-0.31%***	
Target advisor is a bank.	294 deals	153 deals	269 deals	170 deals	
	3.31%***	3.67%***	-0.46%***	-0.14%	
Acquirer advisor is a bank.	252 deals	168 deals	243 deals	172 deals	
	3.57%***	3.30%***	-0.42%*** ^{1A}	-0.39%*** ^{1B}	
The target firm does not use a		41 deals		56 deals	
financial advisor.		2.80%***		-0.13%	
The acquirer does not use a		68 deals		80 deals	
financial advisor.		2.89%***		$0.21\%^{1A,1B}$	
Both advisors are top tier	330 deals	158 deals	352 deals	143 deals	
investment banks.	3.49%***	3.15%***	-0.19%* ^{1C}	-0.60%*** ^{1C}	
Both advisors are mid tier	457 deals	31 deals	463 deals	32 deals	
investment banks.	3.43%***	2.63%***	-0.35%*** ^{2D}	$0.28\%^{2D}$	
Deal attitude: =0 if friendly or	456 deals	20 deals	466 deals	18 deals	
neutral; =1 if hostile.	3.32%*** ^{2E}	5.12%*** ^{2E}	-0.31%***	-0.42%	
Year = 1995		23 deals		29 deals	
		2.83%***		0.77%**	
Year = 1996		28 deals		27 deals	
		4.66%***		0.51%	
Year = 1997		73 deals		71 deals	
		2.59%***		-0.39%*	
Year = 1998		115 deals		121 deals	
		3.57%***		-0.26%	
Year = 1999		61 deals		86 deals	
		2.37%***		0.19%	
Year = 2000		188 deals		161 deals	
		3.78%***		-0.92%***	

(Table 2 continued)

<u>Notes:</u> Means were not estimated for the empty cells. Standard errors are in parentheses. *, **, *** denote significance at the 10%, 5%, 1% level, respectively, testing whether the mean equals zero.

Whenever statistically significant, mean differences are reported. The significance levels of each pair of means (denoted by the same letter in the superscript of the standard error) are:

¹Mean differences are significant at the 5% level.

²Mean differences are significant at the 10% level.

Table 2 Panel B: Descriptive Statistics Controlled for Banking Relationships

Control Variables	(-1,+1) Target SCAR		(-1,+1) Acquirer SCAR	
	Control	Variable	Control	Variable
	NO=0	YES=1	NO=0	YES=1
Target advisor is a bank with a prior	374 deals	110 deals	392 deals	98 deals
relationship with the target (TB_BT)	3.12%*** ^{2F}	4.25%*** ^{2F}	-0.24%***	-0.58%**
Target advisor is a bank with a prior	391 deals	70 deals	397 deals	85 deals
relationship with the acquirer (TB_BA)	3.22%***	3.41%***	-0.22%** ^{1G}	-0.69%*** ^{1G}
Acquirer advisor is a bank with a prior	419 deals	63 deals	438 deals	51 deals
relationship with target (AB_BT)	3.36%***	3.20%***	-0.28%***	-0.61%**
Acquirer advisor is a bank with a prior	386 deals	73 deals	397 deals	84 deals
relationship with acquirer (AB_BA)	3.18%***	3.34%***	-0.29%***	-0.36%*
Acquirer's bank lends to acquiring firm up to 1 year after deal announcement.	456 deals 3.44%***	32 deals 2.62%***	461 deals -0.30%***	34 deals -0.49%
Acquirer's bank lends to acquiring firm up to 2 yrs after deal announcement.	452 deals 3.44%***	36 deals 2.59%***	454 deals -0.30%***	41 deals -0.46%
Both acquirer and target advisors are either non-banks or banks without any prior relationships.		245 deals 3.50%***		232 deals -0.45%*** ^{2H}
Acquirer advisor is a non-bank or bank without any prior relationship; target advisor has		42 deals 3.79%***		30 deals -0.36% ^{2J}
relationship with either target or acquirer.		60 deals		66 deals
Target advisor is a non-bank or bank without any prior relationship; acquirer advisor has		2.69%***		-0.33% ^{1K}
relationship with either target or acquirer.		2.0970		-0.3370
Both target and acquirer advisors have prior		7 deals		9 deals
banking relationships.		2.83%**		-1.16% ^{1K,2H,2J}

(Table 2 continued)

<u>Notes</u>: Means were not estimated for the empty cells. Standard errors are in parentheses. *, **, *** denote significance at the 10%, 5%, 1% level, respectively, testing whether the mean equals zero.

Whenever statistically significant, mean differences are reported. The significance levels of each pair of means (denoted by the same letter in the superscript of the standard error) are:

¹Mean differences are significant at the 5% level.

²Mean differences are significant at the 10% level.

Table 2 Panel C: Descriptive Statistics for Control Variables

Control	Variable Description	N	Mean	Minimum	Maximum
Variables	1		(Std)		
BVPREM	Premium of offer price	448	4.74***	0.09	63.73
	over target book value.		(6.66)		
TGROWTH	Target firm growth rate.		155.14***		
		386	(540.95)	-48.10	4576.06
TPROFIT	Target ROA		-5.66***		
		389	(34.71)	-263.76	48.50
TLEVER	Target Debt/Equity ¹		59.75***		
		387	(186.40)	-648.68	2182.72
PCTCASH	Percent cash financing	681	38***	0	100
	_		(45)		
ATTITUDE	Hostile= -1, Friendly=1,	669	0.93***	-1	1
	Neutral=0		(0.36)		
COMPLETE	Completed deals=1	684	0.78***	0	1
			(0.41)		
CROSS	1 if non US acquirer	684	0.15***	0	1
			(0.36)		
RELSIZE	Target market cap over	403	54.91***	0.07	966.60
	acquirer market cap		(91.89)		

<u>Notes:</u> *, **, *** denotes significance at the 10%, 5%, 1% level, respectively. Standard deviations are in parentheses.

¹The variable *TLEVER* obtained from Compustat is long-term debt divided by total common equity. Common equity is defined as common stock outstanding (including stock adjustments) + capital surplus + retained earnings + treasury stock adjustments for common and nonredeemable preferred stock. The value is negative for distressed firms (15 target firms in our sample).

Table 3. Target and Acquirer Abnormal Returns Without Controlling for Banking Relationships

	Definition ression constant	(1)	1,+1) SCAR (2)		1,+1) SCAR
	ression constant		(- -)	(3)	(4)
	acción conctant	3.1531***	2.1163*	-0.6028***	-1.8384***
DIM (DA) W	ession constant	(0.4258)	(1.1027)	(0.1614)	(0.4242)
INTERNATION DISTRICT	nmy indicator for commercial	0.4288	1.7695**	0.3639*	-0.0465
bank	advisor	(0.5264)	(0.7029)	(0.1942)	(0.2707)
	my indicator for mid tier	-0.5259	1.6054	0.8865**	0.1666
advis	sor investment banks	(1.0514)	(1.3996)	(0.3775)	(0.5199)
BVPREM Pren	nium over Book value		-0.0586		0.0429**
BVI KEM TICH	num over book value		(0.0546)		(0.0200)
TGROWTH Targ	et firm growth rate		-0.0004		-0.0004**
TOROWIII Targ	get inmi growth rate		(0.0005)		(0.0002)
TPROFIT Targ	et ROA		0.0183		-0.0089**
TI KOTTI Turg			(0.0121)		(0.0042)
TLEVER Targ	et leverage		0.0003		-0.0009
TEBVER	et le veluge		(0.0020)		(0.0008)
PCTCASH Cash	n financing		0.0292***		0.0099***
T CT CTISTI	· muncing		(0.0071)		(0.0027)
CROSS Cros	s border		0.7235		0.3103
CROSS	is corder		(0.7780)		(0.4279)
ATTITUDE Host	ile-friendly		0.2605		0.2710
MITHODE	ine menary		(0.7028)		(0.2545)
COMPLETE Indic	cator of deal completion		-0.4077		0.1882
COMT EETE Make	indicator of dear completion		(0.8436)		(0.3235)
Dum Dum	nmy for 1995		-1.1847		1.5502***
Dun.	mily 101 1773		(1.4984)		(0.5588)
Dum Dum	nmy for 1996		-1.5675		1.5829***
Dan.			(1.5618)		(0.6091)
<i>D97</i> Dum	nmy for 1997		-1.2442		0.5975*
<i>D</i>			(0.9346)		(0.3474)
<i>D</i> 98 Dum	nmy for 1998		-0.7994		0.7572**
2,0	Duminy 101 1770		(0.8455)		(0.3265)
Dum Dum	nmy for 1999		-2.0628*		1.0048**
			(1.1757)		(0.4407)
R^2		0.27%	13.01%	1.35%	15.94%
Adjusted R^2		-0.14%	13.01% 8.61%	0.95%	10.48%
Aujusteu K		-0.14%	0.0170	0.93%	10.40%
Number of		487	311	394	246
Observations		107	311	3,74	210

<u>Notes:</u> *, **, *** denotes significance at the 10%, 5%, and 1% level, respectively. Standard errors are in parentheses.

TABLE 4. Dependent Variable: Target 3-Day Abnormal Returns

1710	LE 4. Dependent variable:	Target 5 Day	TIONOTHUI IX	cui iis
Variable	Definition	Model (1)	Model (2)	Model (3)
Intercept	Regression constant	3.1299***	2.0783*	2.8866**
пистсери	Regression constant	(0.4040)	(1.0704)	(1.2735)
TB BT	Target bank is target advisor	1.3796**	2.4130***	2.2708***
	Target bank is target advisor	(0.6777)	(0.7931)	(0.8239)
TB_BA	Acquirer bank is target advisor	-0.5331	-1.2349	-1.3383
	1 0	(0.7691)	(0.8868)	(0.8968) -1.8472*
AB_BT	Target bank is acquirer advisor	(0.8152)	(0.9461)	(0.9588)
		0.2990	0.8484	0.8157
AB_BA	Acquirer bank is acquirer advisor	(0.7521)	(0.8739)	(0.8918)
LUDELED		-0.5027	-0.0430	0.2202
MIDTIER	Only mid tier nonbank advisor	(1.0277)	(1.2039)	(1.2767)
TOPTIER	Top tier nonbank advisor	-0.2545	-0.7040	-1.0940
TOFTIER	Top der nonbank advisor	(0.5552)	(0.6320)	(0.7978)
BVPREM	Premium over Book value		-0.0542	-0.0509
B VI REM	Tremum ever Book value		(0.0566)	(0.0574)
TGROWTH	Target firm growth rate		-0.0003	-0.0003
			(0.0005) 0.0185	(0.0005)
<i>TPROFIT</i>	Target ROA		(0.0120)	0.0185 (0.0121)
			0.0003	0.0007
TLEVER	Target leverage		(0.0021)	(0.0021)
DCTC A SII	Danasata a a sala financia a		0.0253***	0.0253***
PCTCASH	Percentage cash financing		(0.0072)	(0.0073)
CROSS	Cross border		0.3969	0.2923
CROSS	Closs bolder		(0.8597)	(0.8804)
ATTITUDE	Hostile-friendly		0.5430	0.4273
	, , , , , , , , , , , , , , , , , , ,		(0.6840)	(0.7172)
COMPLETE	Indicator of deal completion		-0.1518	-0.3076
		1	(0.8141)	(0.8560) -0.6117
D95	Dummy for 1995			(1.4849)
D06	D 0 100 f			-1.4170
D96	Dummy for 1996			(1.5458)
D97	Dummy for 1997			-0.6226
D97	Dunning for 1997			(0.9748)
D98	Dummy for 1998			-0.3700
				(0.9307)
D99	Dummy for 1999			-1.5446 (1.2320)
n ²		1.18%	12.83%	13.55%
R^2		(-0.14%)	(8.35%)	(7.40%)
Adjusted R ²		ļ ,	00.5	40.5
Number of		457	286	286
Observations				

Notes: *, **, *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard errors are in parentheses.

TABLE 5. Dependent Variable: Acquirer 3-Day Abnormal Returns

AB_BT Target band AB_BA Acquirer band MIDTIER Only mid to the transport of the recommendation of the transport of the trans	TABLE 5. Dependent variable: Acquirer 5-Day Abhorman			
TB_BT Target band TB_BA Acquirer band AB_BA Acquirer band AB_BA Acquirer band AB_BA Acquirer band TOPTIER Only mid target from the following properties of the following p	n	Model (1)	Model (2)	Model (3)
TB_BT Target band TB_BA Acquirer band AB_BT Target band AB_BA Acquirer band AB_BA Acquirer band TOPTIER Only mid target from ACCESS Acquirer's merger BVPREM Premium of TGROWTH Target from TPROFIT Target ROM TLEVER Target level PCTCASH Percentage CROSS Cross bond ATTITUDE Hostile-fried COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for	n constant	-0.7822	-0.9190**	-1.4250***
TB_BA Acquirer by AB_BT Target bank AB_BA Acquirer by MIDTIER Only mid to TOPTIER Top tier not merger. BVPREM Premium of TARGET TARGET FIRM TARGET FIRM TARGET FIRM TARGET FIRM TOPTICASH Percentage CROSS Cross bond ATTITUDE Hostile-fried COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for D98	ii constant	(0.1407)	(0.4323)	(0.4904)
TB_BA Acquirer by AB_BT Target bank AB_BA Acquirer by MIDTIER Only mid to TOPTIER Top tier not merger and merger by Premium of TGROWTH Target firm TPROFIT Target ROUTLEVER Target level PCTCASH Percentage CROSS Cross bond ATTITUDE Hostile-fried COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for D98	nk is target advisor	-0.1312	-0.6348**	-0.5641*
AB_BT Target ban AB_BA Acquirer b MIDTIER Only mid to TOPTIER Top tier not ACCESS Acquirer's merger BVPREM Premium of TGROWTH Target firm TPROFIT Target RO TLEVER Target level PCTCASH Percentage CROSS Cross bord ATTITUDE Hostile-frict COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for D98 Dummy for D98 Dummy for D199 Dummy for D99 D	iik is target advisor	(0.2550)	(0.3152)	(0.3237)
AB_BT Target ban AB_BA Acquirer b MIDTIER Only mid to TOPTIER Top tier not ACCESS Acquirer's merger BVPREM Premium of TGROWTH Target firm TPROFIT Target RO TLEVER Target level PCTCASH Percentage CROSS Cross bord ATTITUDE Hostile-frict COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for D98 Dummy for D98 Dummy for D199 Dummy for D99 D	bank is target advisor	-0.4058	-0.2457	-0.1412
AB_BA Acquirer by MIDTIER Only mid to TOPTIER Top tier not accepted by Premium of TGROWTH Target firm TPROFIT Target ROUTLEVER Target level PCTCASH Percentage CROSS Cross bond ATTITUDE Hostile-fried COMPLETE Indicator of D95 Dummy for D96 Dummy for D98 Dummy for D98 Dummy for D98	Dalik is target advisor	(0.2701)	(0.3443)	(0.3460)
AB_BA Acquirer by MIDTIER Only mid to TOPTIER Top tier not accepted by Premium of TGROWTH Target firm TPROFIT Target ROUTLEVER Target level PCTCASH Percentage CROSS Cross bond ATTITUDE Hostile-fried COMPLETE Indicator of D95 Dummy for D96 Dummy for D98 Dummy for D98 Dummy for D98	nk is acquirer advisor	-0.2455	-0.2912	-0.2139
MIDTIER Only mid to TOPTIER Top tier not only mid to the second of the s	ink is acquirer advisor	(0.3373)	(0.3824)	(0.3838)
MIDTIER Only mid to TOPTIER Top tier not served and server in the server	bank is acquirer advisor	-0.0245	-0.3537	-0.2646
TOPTIER Top tier not accepted by the second	bank is acquirer activisor	(0.2935)	(0.3355)	(0.3419)
TOPTIER Top tier not accepted by the second	tier nonbank advisor	0.3620	0.4139	-0.0152
ACCESS Acquirer's merger BVPREM Premium of TGROWTH Target firm TPROFIT Target ROM TLEVER Target level PCTCASH Percentage CROSS Cross bord ATTITUDE Hostile-frict COMPLETE Indicator of Dummy for Dummy for Dummy for Dummy for Dummy for Down profits and profits the profit of Down profits and profits the profit of Down profits and profits and profits the profit of Down profits and prof	tier noneunk aavisor	(0.3719)	(0.4576)	(0.4858)
ACCESS Acquirer's merger BVPREM Premium of TGROWTH Target firm TPROFIT Target ROM TLEVER Target level PCTCASH Percentage CROSS Cross bord ATTITUDE Hostile-frict COMPLETE Indicator of Dummy for Dummy for Dummy for Dummy for Dummy for Down profits and profits the profit of Down profits and profits the profit of Down profits and profits and profits the profit of Down profits and prof	onbank advisor	-0.3961*	-0.5229**	-0.2539
BVPREM Premium of TGROWTH Target firm TARGET ROST Target level PCTCASH Percentage CROSS Cross bond ATTITUDE Hostile-fried D95 Dummy for D96 Dummy for D98 Dummy for D98 Dummy for D98	onounk advisor	(0.2060)	(0.2542)	(0.3107)
BVPREM Premium of TGROWTH Target firm TARGET ROST Target level PCTCASH Percentage CROSS Cross bond ATTITUDE Hostile-fried D95 Dummy for D96 Dummy for D98 Dummy for D98 Dummy for D98	s bank lends 1 year after	-0.0833	0.2569	0.1491
BVPREM Premium of TGROWTH Target firm TARGET ROMENTALEVER Target level PCTCASH Percentage CROSS Cross bond ATTITUDE Hostile-fried COMPLETE Indicator of Dummy for D96 Dummy for D97 Dummy for D98 Dummy for D98 Dummy for D98	o outilities i your ureer	(0.3831)	(0.4794)	(0.4880)
TGROWTH Target firm TPROFIT Target RO TLEVER Target level PCTCASH Percentage CROSS Cross bord ATTITUDE Hostile-frie COMPLETE Indicator of D95 Dummy fo D96 Dummy fo D97 Dummy fo D98 Dummy fo			0.0585***	0.0581***
TPROFIT Target RO TLEVER Target level PCTCASH Percentage CROSS Cross bord ATTITUDE Hostile-frie COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for	over Book value		(0.0219)	(0.0220)
TPROFIT Target RO TLEVER Target level PCTCASH Percentage CROSS Cross bord ATTITUDE Hostile-frie COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for	.•		-0.0004**	-0.0004**
TLEVER Target level PCTCASH Percentage CROSS Cross bord ATTITUDE Hostile-frie COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for	m growth rate		(0.0002)	(0.0002)
TLEVER Target level PCTCASH Percentage CROSS Cross bord ATTITUDE Hostile-frie COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for			-0.0082*	-0.0083*
PCTCASH Percentage CROSS Cross bord ATTITUDE Hostile-fric COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for)A		(0.0043)	(0.0043)
PCTCASH Percentage CROSS Cross bord ATTITUDE Hostile-fric COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for			-0.0003	-0.0006
CROSS Cross bord ATTITUDE Hostile-frie COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for	erage		(0.0008)	(0.0008)
CROSS Cross bord ATTITUDE Hostile-frie COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for	a anah financina		0.0107***	0.0110***
ATTITUDE Hostile-frie COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for	e cash imancing		(0.0029)	(0.0028)
ATTITUDE Hostile-frie COMPLETE Indicator of D95 Dummy for D96 Dummy for D97 Dummy for D98 Dummy for	dor		0.5511	0.6693
COMPLETE Indicator of Dummy for Dumm	uci		(0.5245)	(0.5264)
COMPLETE Indicator of Dummy for Dumm	iendly		0.0214	0.1500
D95 Dummy fo D96 Dummy fo D97 Dummy fo D98 Dummy fo			(0.2656)	(0.2709)
D95 Dummy fo D96 Dummy fo D97 Dummy fo D98 Dummy fo	of deal completion		0.2656	0.2275
D96 Dummy fo D97 Dummy fo D98 Dummy fo	or dear completion		(0.3297)	(0.3366)
D96 Dummy fo D97 Dummy fo D98 Dummy fo	or 1995			1.3831**
D97 Dummy fo				(0.5700)
D97 Dummy fo	or 1996			1.2760**
D98 Dummy fo				(0.6264)
D98 Dummy fo	or 1997			0.2967
				(0.3762)
	or 1998			0.4159
Dummy fo				(0.3677)
	or 1999			0.7165
		2.200/	16 000/	(0.4718)
R^2		2.30%	16.08%	19.46%
Adjusted R ²		0.85%	10.36%	11.97%
Number of Observations		479	235	235

<u>Notes:</u> *, **, *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard are errors in parentheses.

TABLE 6. Binomial Logit Model for Advisor Choice

The dependent variable is an advisor selection indicator variable *S* such that:

S = 0 if the target and the acquirer use either nonbank advisors or banks with no prior relationships with either merger counterparty; and

S = 1 if either the target or the acquirer uses a bank advisor with a prior lending relationship with either the target or the acquirer.

In model (1), the independent variables are:

Lender_TBBT (**Lender_ABBT**) = 0 if the target firm has no banking relationships with the target (acquirer) advisor; =1 if the target's bank acted as a participant in a loan syndication to the target (acquiring) firm prior to the deal announcement date; =2 if the target's bank acted as an agent or arranger for a loan syndication to the target (acquiring) firm prior to the deal announcement date.

Lender_TBBA (**Lender_ABBA**) = 0 if the acquirer has no banking relationships with the target (acquirer) advisors; =1 if the acquirer's bank acted as a participant in a loan syndication to the target (acquiring) firm prior to the deal announcement date; =2 if the acquirer's bank acted as an agent or arranger for a loan syndication to the target (acquiring) firm prior to the deal announcement date.

Duration_TBBT (**Duration_ABBT**) = the length of time (in years) between the origination of the earliest loan syndication to the target by the target (acquirer) advisor.

Duration_TBBA (**Duration_ABBA**) = the length of time (in years) between the origination of the earliest loan syndication to the acquirer by the target (acquirer) advisor.

Purpose_TBBT (**Purpose_ABBT**) = 0 if there were no prior loan syndications to the target firm involving the target (acquirer) advisor; =1 if the purpose of the loan syndication by the target (acquirer) advisor to the target firm was related to an acquisition; = 2 if the purpose of the loan syndication by the target (acquirer) advisor to the target firm was for general business purposes.

 $Purpose_TBBT$ ($Purpose_ABBT$) = 0 if there were no prior loan syndications to the target firm involving the target (acquirer) advisor; =1 if the purpose of the loan syndication by the target (acquirer) advisor to the target firm was related to an acquisition; = 2 if the purpose of the loan syndication by the target (acquirer) advisor to the target firm was for general business purposes.

Nonadvisor Lender_T (Nonadvisor Lender_A) = 0 if there were no loan syndications involving nonadvisors to the target (acquirer); =1 if the highest level of participation by any nonadvisor in a loan syndication to the target (acquirer) was as a participant; =2 if the highest level of participation by any nonadvisor in a loan syndication to the target (acquirer) was as an agent or arranger.

Nonadvisor Duration_T (**Nonadvisor Duration_A**) = the length of time between the merger announcement date and the earliest loan syndication involving a bank that advises neither the target nor the acquirer.

Nonadvisor Purpose_T (Nonadvisor Purpose_A) = 0 if there were no loan syndications involving nonadvisors to the target (acquirer); =1 if the purpose of the loan syndication by any nonadvisor to the target (acquirer) was related to an acquisition; =2 if the purpose of the loan syndication by any nonadvisor to the target (acquirer) was for general business purposes.

Access = 1 (0 otherwise) if the acquirer's bank is chosen as an advisor and subsequently lends to the acquirer up to one year after the merger announcement date.

Table 6

Independent Variable	Definition	Coefficients	
Intercept	Regression constant	-1.3423***	
		(0.3421)	
Lender_TBBT	Intensity of loan syndication relationship of	1.7868***	
_	target bank advisor with target	(0.6154)	
Lender_ABBT	Intensity of loan syndication relationship of	1.3636**	
	target bank advisor with acquirer	(0.6096)	
Lender_TBBA	Intensity of loan syndication relationship of	0.9442*	
	acquirer bank advisor with target	(0.5700)	
Lender_ABBA	Intensity of loan syndication relationship of	1.2949**	
	acquirer bank advisor with acquirer	(0.5103)	
Duration_TBBT	Duration of syndicated loan given by target bank	-0.2069	
	advisor to target	(0.1492)	
Duration_ABBT	Duration of syndicated loan given by target bank	-0.0168	
	advisor to acquirer	(0.1279)	
Duration_TBBA	Duration of syndicated loan given by acquirer	0.3273	
	bank advisor to target	(0.2197)	
Duration_ABBA	Duration of syndicated loan given by acquirer	0.2301**	
	bank advisor to acquirer	(0.1048)	
Purpose_TBBT	Purpose of syndicated loan given by target bank	0.3371	
	advisor to target	(0.6816)	
Purpose_ABBT	Purpose of syndicated loan given by target bank	0.6672	
	advisor to acquirer	(0.7353)	
Purpose_TBBA	Purpose of syndicated loan given by acquirer	0.5528	
1 urpose_1BBA	bank advisor to target	(0.6943)	
Purpose_ABBA	Purpose of syndicated loan given by acquirer	1.2217**	
1 urpose_ADDA	bank advisor to acquirer	(0.6202)	
Access	Acquirer's bank advisor and lends to the	1.3243**	
Access	acquirer up to one year after the merger.	(0.6578)	
Nonadvisor Lender_T	Intensity of loan syndication relationship of	-0.1594	
Ivonuavisor Lenaer_1	nonadvisor banks with target	(0.6677)	
Nonadvisor Lender_A	Intensity of loan syndication relationship of	-0.6871	
TVORUUVISOT LERUET_1	nonadvisor banks with acquirer	(0.6362)	
Nonadvisor Duration_T	Duration of syndicated loan given by nonadvisor	0.1252	
Trondavisor Burdion_1	banks to target	(0.1584)	
Nonadvisor Duration_A	Duration of syndicated loan given by nonadvisor	0.0308	
Trondavisor Burdion_11	banks to target	(0.1789)	
Nonadvisor Purpose_A	Purpose of syndicated loan given by nonadvisor	-0.2085	
1.0	banks to target	(0.7403)	
Nonadvisor Purpose_A	Purpose of syndicated loan given by nonadvisor	-1.3854**	
	banks to acquirer	(0.6977)	
Number of observations		241	
Concordant ratio (percent)		84.1	
Likelihood ratio test		87.8***	

Notes: *, **, *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard errors are in parentheses.

Table 7. Bank Advisor Abnormal Returns

The pooled return generating function was estimated for 8 bank advisors over the period January 2, 1995 through December 31, 2000 (or whatever subset of the period was relevant for each bank). Our sample of bank advisors includes Citicorp (before merger with Travelers), FleetBoston, Chase Manhattan Bank, JP Morgan Bank (before merger with Chase), Bankers Trust (before takeover by Deutschebank), BankBoston (before merger with Fleet), Bank of America (including Nationsbank), Citigroup (after merger with Travelers).

The dependent variable is the percent daily return (including dividends) on the 8 bank advisors.

The independent variables are:

 TB_BT (AB_BT) =1 if the target's (acquirer's) advisor had a prior banking relationship with the target.

 $TB_BA\ (AB_BA) = 1$ if the target's (acquirer's) advisor had a prior banking relationship with the acquirer.

DTARADV (**DACQADV**) = 1 if the bank advised the target (acquirer) in the merger.

MARKET = the daily CRSP equally weighted index.

EVENT PERIOD = 1 on each day of the (-1, to +1) event window surrounding each merger announcement.

SIZE = the log of target's market capitalization as of the merger announcement ACCESS =1 (0 otherwise) if the acquirer's bank is chosen as an advisor and subsequently lends to the acquirer up to one year after the merger announcement date.

RELSIZE = the target's market capitalization divided by the acquirer's market capitalization as of merger announcement date (measured as a decimal).

 $TB_BT \times DTARADV (AB_BA \times DACQADV) = 1$ if the dependent bank is the target's (acquirer's) advisor and had a prior banking relationship with the target (acquirer). $TB_BA \times DTARADV (AB_BT \times DACQADV) = 1$ if the dependent bank is the target's (acquirer's) advisor and had a prior banking relationship with the acquirer (target).

AB_BT x **DTARADV** (**TB_BA** x **DACQADV**) =1 if there is a relationship between the target (acquirer) and the acquirer's (target's) advisor, but the dependent bank is the target's (acquirer's) advisor.

AB_BA x **DTARADV** (**TB_BT** x **DACQADV**) =1 if there is a relationship between the acquirer (target) and the acquirer's (target's) advisor, but the dependent bank is the target's (acquirer's) advisor.

(Table 7 Continued next page)

Table 7

Independent Variables Specification (1)	Specification (1)	Specification (2)	Independent Variables Specification (2)
Intercept	-0.0002 (0.0002)	-0.0002 (0.0002)	Intercept
TB_BT	0.0017 (0.0026)	0.0018 (0.0037)	$TB_BT \times DTARADV$
TB_BA	0.0012 (0.0029)	0.0040 (0.0048)	$TB_BA \times DTARADV$
AB_BT	-0.0004 (0.0023)	0.0017 (0.0049)	$AB_BT \times DTARADV$
AB_BA	-0.0049** (0.0021)	-0.0024 (0.0041)	$AB_BA \times DTARADV$
DTARADV	-0.0002 (0.0027)	0.0027 (0.0031)	$TB_BT \times DACQADV$
DACQADV	-0.0072** (0.0036)	-0.0005 (0.0036)	$TB_BA \times DACQADV$
	, , ,	-0.0018 (0.0025)	$AB_BT \times DACQADV$
		-0.0059*** (0.0023)	$AB_BA \times DACQADV$
MARKET	1.2862*** (0.0244)	1.2876*** (0.0244)	MARKET
EVENT PERIOD	0.0052 (0.0040)	-0.0008 (0.0018)	EVENT PERIOD
SIZE	0.0003* (0.0002)	0.0003* (0.0002)	SIZE
ACCESS	0.0036 (0.0031)	0.0040 (0.0032)	ACCESS
RELSIZE	0.0005 (0.0004)	0.0005 (0.0004)	RELSIZE
R^2	19.25%	19.25%	R^2
Adjusted R^2	19.17%	19.16%	Adjusted R ²
Number of Observations	11,825	11,825	Number of Observations

<u>Notes:</u> *, ***, *** indicate significance at the 10%, 5%, and 1% levels, respectively. Standard errors are in parentheses.