

Intraday behavior of market depth in a competitive dealer market: A note

Alex Frino , Andrew Lepone, Grant Wearin

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Abstract


This study is the first to examine the intraday behavior of quoted depth in a competitive dealer market. In sharp contrast to previous research that focuses on specialist markets, quoted depth is lowest at the open of trading, plateaus around the middle of the day, and then dramatically increases in the final hours of trading, peaking at the close. This peak in quoted depth coincides with a narrowing in bid-ask spreads, and is contrary to intraday patterns documented for specialist markets. The authors conclude that the increase in depth and narrowing of bid-ask spreads at the close is driven by dealers rebalancing inventories to achieve target inventory levels in a competitive market. © 2008 Wiley Periodicals, Inc. *Jrl Fut Mark* 28:294–307, 2008

BIBLIOGRAPHY

Admati, A. R., & Pfleiderer, P. (1988). A theory of intraday patterns: Volume and price variability. *Review of Financial Studies*, 1, 3–41.

[Web of Science®](#)  | [Google Scholar](#) 

Ahn, H., Bae, K., & Chan, K. (2001). Limit orders, depth, and volatility: Evidence from the Stock Exchange of Hong Kong. *Journal of Finance*, 2, 767–788.

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Brock, W., & Kleidon, A. (1992). Periodic market closure and trading volume: A model of intraday bids and asks. *Journal of Economic Dynamics and Control*, 16, 451–489.

[Web of Science®](#) | [Google Scholar](#)

Brockman, P., & Chung, D. Y. (1999). An analysis of depth behaviour in an electronic, order-driven environment. *Journal of Banking and Finance*, 23, 1861–1882.

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Chan, K. C., Christie, W. G., & Schultz, P. H. (1995a). Market structure and the intraday pattern of bid-ask spreads for NASDAQ securities. *Journal of Business*, 68, 35–60.

[Web of Science®](#) | [Google Scholar](#)

Chan, K. C., Chung, Y. P., & Johnson, H. (1995b). The intraday behaviour of bid-ask spreads for NYSE stocks and CBOE options. *Journal of Financial and Quantitative Analysis*, 30, 329–346.

[Web of Science®](#) | [Google Scholar](#)

Chung, K. H., & Zhao, X. (2004a). Price and quantity quotes on Nasdaq: A study of dealer quotation behaviour. *Journal of Financial Research*, 27, 97–519.

[Web of Science®](#) | [Google Scholar](#)

Chung, K. H., & Zhao, X. (2004b). Making a market with spreads and depth. *Journal of Business Finance and Accounting*, 31, 1069–1096.

[Google Scholar](#)

Dupont, D. (2000). Market making, prices and quantity limits. *The Review of Financial Studies*, 13, 1129–1151.

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Frino, A., & Jarnecic, E. (2005). Introduction to futures and options markets in Australia. Pearson Education Australia. Frenchs Forest, NSW Australia.

[Google Scholar](#)

Frino, A., Stevenson, M., & Duffy, M. (1998). An analysis of intraday quoted bid-ask spreads in futures markets: Evidence from the Sydney Futures Exchange. *Australian Journal of Management*, 23, 185–202.

[Google Scholar](#)

Harris, L. E. (1990). Liquidity, trading rules, and electronic trading systems. New York University Monograph Series in Finance and Economics, Monograph No. 1990–4.

[Google Scholar](#)

Harris, L. E. (1994). Minimum price variations, discrete bid-ask spreads, and quotation sizes. *Review of Financial Studies*, 7, 149–178.

[Web of Science®](#) | [Google Scholar](#)

Johnstone, D. (2005). *Significance level and large samples in finance: Correction of Connolly (1989)* (working paper). Sydney: School of Business, Discipline of Finance, University of Sydney.

[Google Scholar](#)

Lee, C., Mucklow, B., & Ready, M. (1993). Spreads, depths, and the impact of earnings information: An intraday analysis. *Review of Financial Studies*, 6, 345–374.

[CAS](#) | [Web of Science®](#) | [Google Scholar](#)

Li, Y., Van Ness, B. F., & Van Ness, R. A. (2005). Daily and intraday patterns in spread and depth for limit orders and specialists. *Quarterly Journal of Business and Economics*, 44, 3–14.

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McInish, T., & Wood, A. (1992). An analysis of intraday patterns in bid/ask spreads for NYSE stocks. *Journal of Finance*, 92, 753-764.

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Newey, W. K., & West, K. D. (1987). A simple positive semi-definite heteroskedasticity and autocorrelation consistent covariance matrix. *Econometrica*, 55, 703-708.

[Web of Science®](#) | [Google Scholar](#)

Pirrong, C. (1996). Market liquidity and depth on computerized and open outcry trading systems: A comparison of DTB and LIFFE bond contracts. *Journal of Futures Markets*, 16, 519-543.

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