

## Bank Capital: Lessons from the Financial Crisis

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### Abstract

Using a multicountry panel of banks, we study whether better capitalized banks experienced higher stock returns during the financial crisis. We differentiate among various types of capital ratios: the Basel risk-adjusted ratio, the leverage ratio, the Tier 1 and Tier 2 ratios, and the tangible equity ratio. We find several results: (i) before the crisis, differences in capital did not have much impact on stock returns; (ii) during the crisis, a stronger capital position was associated with better stock market performance, most markedly for larger banks; (iii) the relationship between stock returns and capital is stronger when capital is measured by the leverage ratio rather than the risk-adjusted capital ratio; (iv) higher quality forms of capital, such as Tier 1 capital and tangible common equity, were more relevant.

### LITERATURE CITED

Basel Committee on Banking Supervision. (2009) "Consultative Proposals to Strengthen the Resilience of the Banking Sector." Bank of International Settlements, <http://www.bis.org/press/p091217.htm>.

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---

Calem, Paul, and Rafael Rob. (1999) "The Impact of Capital-Based Regulation on Bank Risk-Taking." *Journal of Financial Intermediation*, 8, 317-52.

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---

Caprio, Gerard, and Patrick Honohan. (1999) "Beyond Capital Ideas: Restoring Banking Stability." World Bank Policy Research Working Paper No. 2235.

| [Google Scholar](#) |

---

Caprio, Gerard, Asli Demirgürç-Kunt, and Edward Kane. (2010) "The 2007 Meltdown in Structured Securitization: Searching for Lessons, Not Scapegoats." *The World Bank Research Observer*, 25, 125-55.

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

---

Demirgürç-Kunt, Asli, and Luis Serven. (2010) "Are All Sacred Cows Dead? Implications of the Financial Crisis for Macro and Financial Policies." *The World Bank Research Observer*, 25, 91-124.

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

---

Diamond, Douglas W., and Raghuram Rajan. (2000) "A Theory of Bank Capital." *Journal of Finance*, 55, 2431-65.

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---

Drukker, David M. (2003) "Testing for Serial Correlation in Linear Panel Data Models." *Stata Journal*, 2, 168-77.

| [Google Scholar](#) |

---

Estrella, Arturo, Sangkyun Park, and Stavros Peristiani. (2000) "Capital Ratios as Predictors of Bank Failure." *Economic Policy Review*, Federal Reserve Bank of New York, July, 33-52.

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---

Furlong, Frederick, and Michael Keeley. (1989) "Capital Regulation and Bank Risk-Taking: A Note." *Journal of Banking and Finance*, 13, 883-91.

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---

Furlong, Frederick, and Michael Keeley. (1990) "A Re-examination of the Mean-Variance Analysis of Bank Capital Regulation." *Journal of Banking and Finance*, 15, 69-84.

| [Google Scholar](#) |

---

Hellwig, Martin. (2010) "Capital Regulation after the Crisis: Business as Usual?" Max Planck Institute Working Paper.

| [Google Scholar](#) |

---

Kim, Daesik, and Anthony Santomero. (1988) "Risk in Banking and Capital Regulation." *Journal of Finance*, 43, 1219-33.

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---

Koehn, Michael, and Anthony M. Santomero. (1980) "Regulation of Bank Capital and Portfolio Risk." *Journal of Finance*, 35, 1235-44.

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---

Merrouche, Ouarda, and Erland Nier. (2010) "What Caused the Global Financial Crisis? Evidence on Drivers of Financial Imbalances 1999-2007." IMF Working Paper 10/265.

| [Google Scholar](#) |

---

Rochet, Jean-Charles. (1992) "Capital Requirements and the Behaviour of Commercial banks." *European Economic Review*, 36, 1137-78.

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Tong, Hui, and Shang-Jin Wei. (2010) "The Composition Matters: Capital Inflows and Liquidity Crunch during a Global Economic Crisis." *Review of Financial Studies*, 24, 2023–52.

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---

Viñals, José, Jonathan Fiechter, Ceyla Pazarbasioglu, Laura Kodres, Aditya Narain, and Marina Moretti. (2010) "Shaping the New Financial System." *IMF Staff Position Note*, 10/15.

| [Google Scholar](#) |

---

Whited, Toni M., and Guojun Wu. (2006) "Financial Constraints Risk." *Review of Financial Studies*, 19, 531–59.

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