Funding Stability and Bank Liquidity
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Motivation
Why do banks simultaneously invest in illiquid assets and issue liquid money-like liabilities?
- Without insurance, money-like liabilities expose banks to run-like withdrawals of funding.
- Funding withdrawals can induce costly fire sales if banks hold illiquid assets.
Testable implication: Stable funding increases investment in illiquid assets.

Empirical Setting
I exploit the 2016 money market fund (MMF) reform, which made banks funding structures more stable.
- MMFs invest in banks’ short-term liabilities and are prone to runs by their investors.
- Exposes bank to rollover risk.
- MMF reform introduced new regulations, including redemption gates/fees and a floating net asset value (NAV) on institutional MMFs.

Heterogeneity in Bank MMF Funding

Theory
Hanson, Shleifer, Stein, and Vishny (2015)
- Investing in illiquid assets poses substantial fire sale risk due to the threat of bank runs.
- Banks with stable liability structures from equity cushions/government guarantees can attract ‘sleepy’ depositors that are unlikely to run.
- Stable liability structures enable investment in illiquid assets.

Empirical measure of asset illiquidity
- Fraction of lending on banks’ balance sheets
- Syndicated loans that do/don’t trade on secondary markets

Impact on Funding Structures
High Exposure Banks Lost 3% of Their Overall Funding

Regression Point Estimates
Lending Increase Corresponds to Funding Outflows

Impact on Bank Asset Choice
Banks Increase Lending in Response to the Reform

Broad Takeaway
Improved stability of bank funding from MMF reform led to an increase in the fraction of lending on bank balance sheets. This is consistent with the theoretical prediction that stable funding lowers the cost of investing in illiquid assets since fire-sales are less likely.

Conclusion
- MMF reform improved the funding stability of banks by reducing availability of MMF funding and mitigating the incentives of MMF investors to run. This reduces banks’ rollover risk.
- Banks subsequently increase the fraction of lending on their balance sheets.
- Supports the theory that unstable funding makes banks less willing to invest in illiquid assets because of fire sale risk.
- In this view of banking, stable funding, potentially from government guarantees on bank liabilities, is necessary for illiquid asset investment and credit provision to the real economy.

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