



# Discussion: How (in)active was bank supervision during the 2022 monetary tightening?

## Investor Attention to Bank Risk During the Spring 2023 Bank Run



# Disclaimer

The views in this presentation are those of the speaker and do not necessarily reflect the views of the Federal Reserve Bank of Richmond or the Federal Reserve System.

# Contributions of the papers

- Who paid attention to bank run risk in 2022-2023?
  - Supervisors downgraded firms
  - Public stock prices became responsive & coalesced around downgraded banks

*What would we want from supervisors or expect from efficient markets?*

- Risks as exposed by SVB, Signature, Silvergate, First Republic:
  - Share of uninsured deposits, unrealized securities losses

*What other ex ante risks should supervisors be looking at and markets be pricing?*

# Gopalan & Granja (G&G)

- Supervisors' CAMELS ratings of banks decline with:
  - Higher exposure to high interest rates (duration) and securities losses? YES, starting in 2022:Q2,
  - Similar result looking at 1988-1989 (6.6% → 9.8%) and 1994-1995 (3.0% → 6.0%)
  - More runnable deposits? NOT SIGNIFICANT
- Banks respond to rating downgrades by reducing interest rate exposure and increasing liquidity, but modestly

# Supervisors downgraded banks ~2022:Q4

- Downgrades increased as rates increased, especially (L)iquidity and (S)ensitivity to risk
- Similar results in past tightening on (L)



(C)apital  
(A)ssets  
(M)anagement  
(E)arnings  
(L)iquidity  
(S)ensitivity to risk

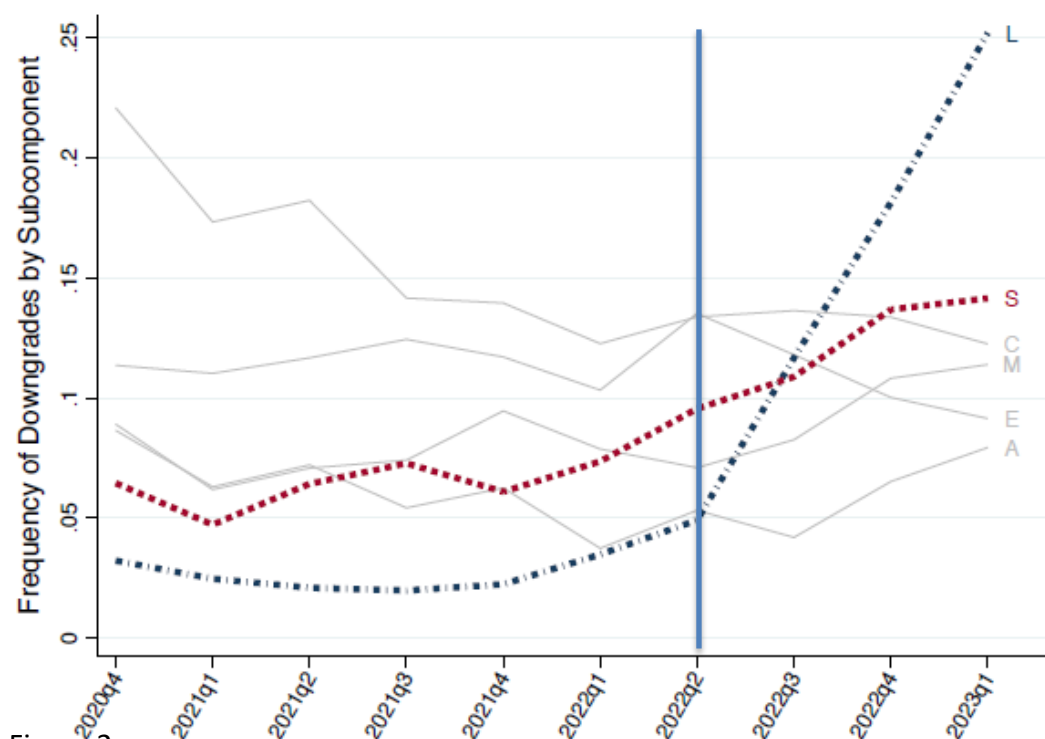


Figure 2

# Fischl-Lanzoni, Hiti, Kaplan, Sarkar (FHKS)

- Bank stock price responsiveness to uninsured deposits and AFS/HTM losses (beta)
  - Differential performance of stock portfolios sorted by characteristics of 71 banks
- Betas begin insignificant, increased in March & subsided in April 2023
- Betas increased on average, but only for <60% of banks
  - Increased dramatically for banks on downgrade watch
  - Responsiveness to news also increases

# News coordinated investor response

- Biggest increase in stock price sensitivity to uninsured deposits and AFS/HTM losses for banks that were downgraded/on watch

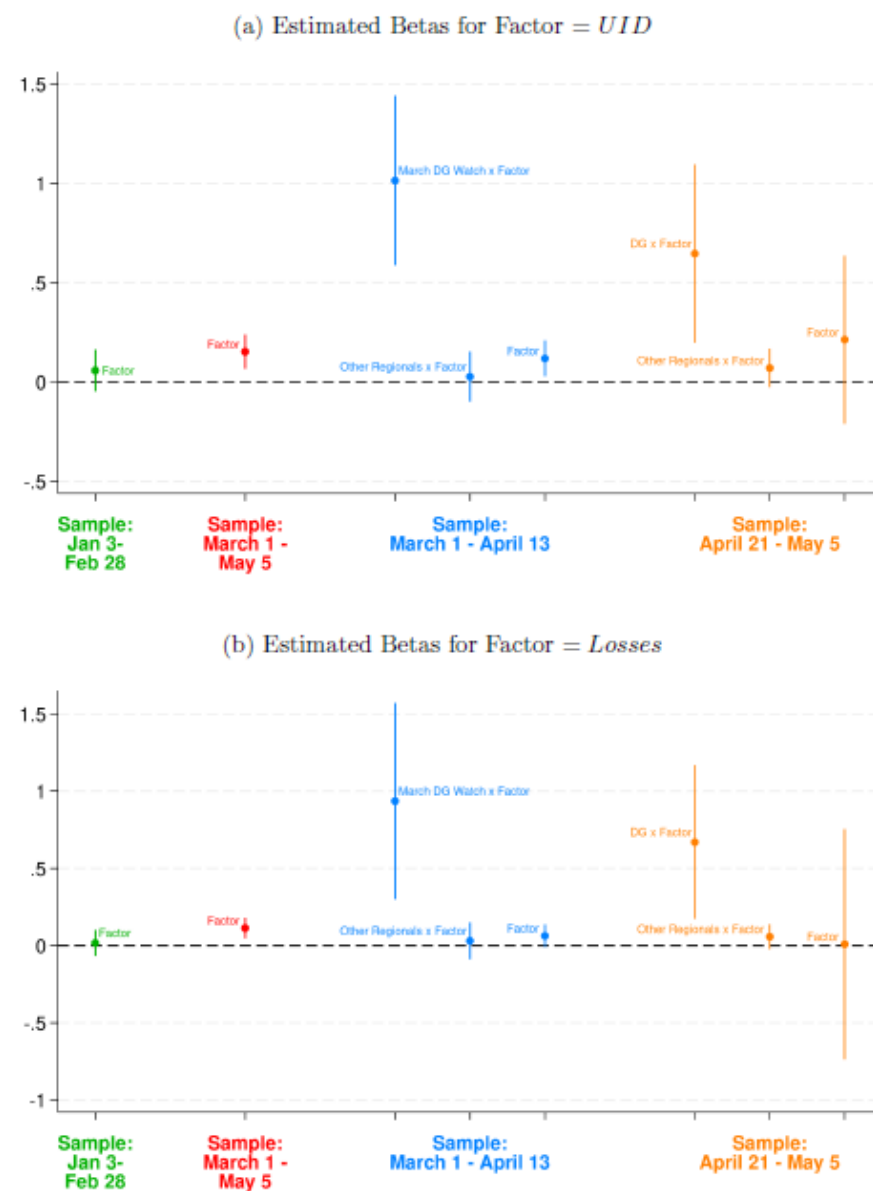


Figure 9

# Why does it matter who pays attention?

- Supervision – Goal of supervision is to ensure safety and soundness of financial institutions
  - Suggests importance of reducing extreme left tail of observations
  - Regulation also plays a role in setting parameters of risk
- Investors – How efficient are stock markets at incorporating news? Could markets “discipline” banks or serve as early warning of emerging risks?
  - Expected outcomes more than the left tail
  - Is beta to these factors the best way to measure investor attention to bank risk? Investors could be perfectly disciplining banks based on idiosyncratic risk

*This is a very hard question to analyze. Requires a researcher to know ex ante what risks should be identified. Supervisors should perhaps respond more than markets?*

# 1. When should there be a reaction?

Shouldn't supervisors & public markets be acting *before* rates increase?

Yes

- “Through the cycle” supervision relationship between duration and liquidity rating, not only in tightening
- Investors should price risk of rate hikes in options if not equity prices

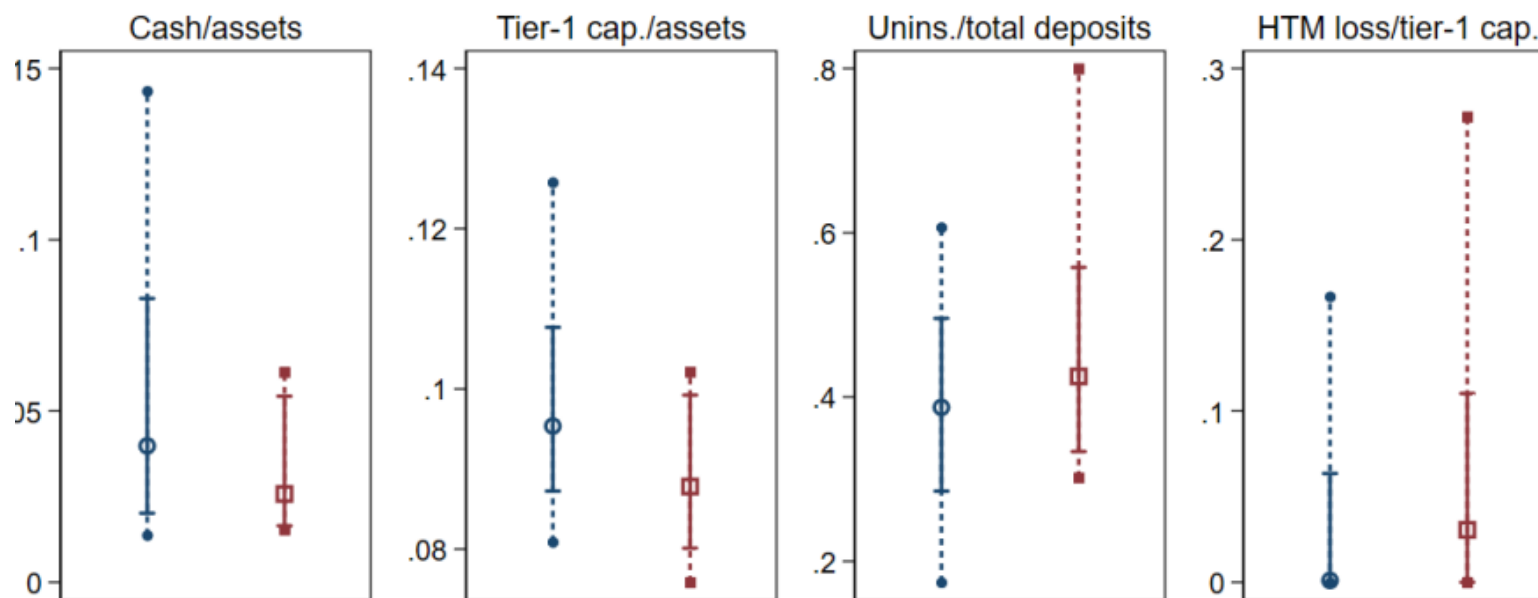
No

- Significant (and increasing) disagreement in policy rate forecasts in 2022, particularly the longer horizon forecasts
- Bank runs an equilibrium that does not necessarily occur:
  - Failure of natural hedge from slow deposit repricing
  - Interventions post SVB: Bank term funding program (BTFP)

# 1. When should there be a reaction?

- Cipriani, Eisenbach & Kovner (2024) identifies runs through payments data and identifies 22 run banks
- Hard to distinguish between run and non-run banks on basis of uninsured deposits & HTM losses alone

Distribution of balance sheet characteristics



# Suggestions

- More focus on *interactions* between variables to narrow in on confluence of variables that makes banks vulnerable
- Public markets:
  - Interact with market forecasts of the rate outlook – only as higher rates become the modal outcome does it make sense for markets to price the risk?
  - When is information known? Information on balance sheets is available well before the call reports are finalized for most public companies
    - Why only 71 banks? (~280 in the FRBNY CRSP-RSSDID link)
- Both:
  - More nonlinear approaches – not sure it makes sense for variation with uninsured deposits or losses to be linear. Below the 25 percentile most exposed, should anything respond to variation?
  - Sectoral composition of uninsured depositors

## 2. Other insights about information

### Supervision:

- Additional analysis of how outcomes vary around supervisory portfolio cut-offs or districts? (paper shows that state & federal supervisors act similarly)
- Which types of banks change actions more based on downgrades? (size, supervisory attention)

### Public markets:

- Which types of investors respond to which information?
  - Use 13F filings to examine sales
- Role of bond investors, equity analysts
- How does this compare to past monetary tightening experiences?

### 3. Drawing conclusions

- Section 6 of the G&G devoted to policy implications
  - Earlier interventions by supervisors would have reduced long duration holdings
  - Impact limited by banks' response to supervisory downgrades

*Is the optimal number of bank bankruptcies 0? The optimal number of bank runs? Is it good for supervisors to affect banks' asset allocation choices?*
- FHKS conclusions
  - “investors were only intermittently sensitive to high levels of uninsured deposits and securities losses in 2022... reinforcing interpretation of limited investor attention”
    - Equity investors increase betas to risks in first week of March
  - Stock investors coalesce around downgraded banks → equity investors pay attention after the bank runs

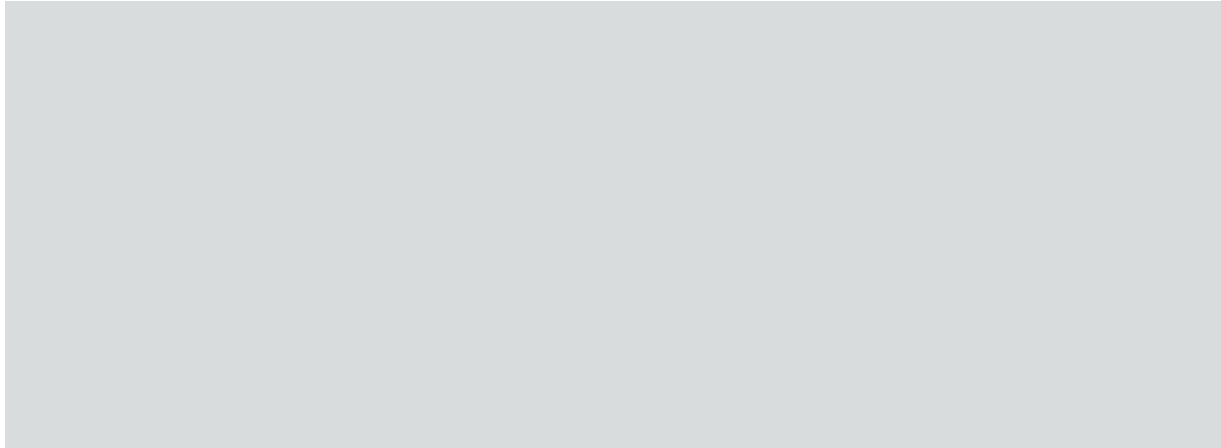
*Should we be looking for portfolios of run-vulnerable banks to underperform only after SVB? Depends on upside potential of those banks' businesses?*

# Conclusion

- Bank supervisors noticed risks → G&G suggest they could have done so sooner, encouraged banks to change assets more
- Regulation sets the balance between the supply of lending/access to credit and risks that society and the official sector are comfortable with sustaining. Supervision involves:  
*“regulatory compliance, including making qualitative assessments of banks’ internal risk management and control processes and enforcing remedial actions tailored to the circumstances they uncover.” Hirtle & Kovner (2022)*
- What level of interest rate risk does regulation want banks to be robust to?
- Outcomes generally reflect supervision *and* regulation. Is the optimal number of failures zero?

# Conclusion (cont'd)

- Equity market noticed risks → FHKS suggests not much, and coalesce around other public information
- Rapid fall in bank equity prices in March 2023 suggests that equity prices may not reflect risks in advance
  - Including SVB which is not included in the analysis
  - Change in pricing behavior of downgraded banks only
- Both papers contribute to literature on information & monitoring of bank risk: bank equities, bank subdebt, bond ratings, supervisor ratings, interbank lending



**Thanks for the opportunity to read these papers – you should read both!**

