



Securities lender of last resort: On the causal effects of CBs' securities lending facilities

Greppmair and Jank

Discussion
Jean-David Sigaux (ECB)

Disclaimer: The views expressed in this presentation represent those of the authors and not necessarily those of the ECB.

Selective summary



- **Research question:** What is the impact of CBs' programs of securities lending?
- **Empirical strategy:** Exploit heterogenous exposures to (exogenous) increase in CBs' securities lending
- **Main finding #1 :** The change in policy led to a supply shock on the securities lending markets
 - Lower specialness by 1 bps (i.e. a 13% decrease)
 - Higher securities borrowing volume by 68%
- **Main finding #2:** The change in policy decreased bid-ask spreads
 - Lower bid-ask spreads by 0.6 bps (i.e. a 5% decrease)
 - => Focus of the discussion

Big picture question



- **Big picture question : Does securities lending have an impact on market liquidity?**
- **“Market makers decrease bid-ask spread...”**
 - **“...when they can borrow easily the securities” [Direct impact]**
 - Straightforward to test
 - Not trivial, and may go in the opposite direction [See in 2 slides]
 - => A promising avenue for the paper!
 - **“...when short-sellers are able to incorporate negative information” [Indirect impact]**
 - Complicated to test
 - Clearly true, based on previous literature
 - => A less promising avenue for the paper

Why should the paper address the big picture question?



- **It's a key question**
 - **Monetary policy** has large impacts on money markets
 - In turn, money markets impact securities lending
 - If securities lending impacts **liquidity**, it is another mechanism where **monetary policy** impacts **market liquidity**
- **The authors have a better technology than the literature**
 - The literature has used *Quantitative easing* as an impact to specialness
 - But *quantitative easing* also impacts outstanding tradable volumes
 - So, with *quantitative easing*, one cannot attribute change in liquidity to specialness
 - The authors have an exogenous shock on securities lending => Much better identification
- **This paper has encouraging first results on bid-ask spreads**

Not trivial that specialness impacts liquidity



- **At $t=0$**
 - Suppose that Bid Price = 99.75 EUR; Ask price = 100.25 EUR
 - To facilitate the interpretation, suppose that dealers' inventory at $t=0$ is null
 - When dealer buys (sells) a security, she lends (borrows) it in the Repo market and earns (pays) the specialness

- **At $t=1$, “specialness” decreases by 10 cents**

Dealers' charges full decrease in revenue

Dealers' passes on full decrease in cost

- Bid Price = 99.75 EUR - 10 cents ; Ask price = 100.25 EUR - 10 cents
- => No change in Bid-ask spread

- **Conclusion: In principle, security lending should not impact liquidity**

A decrease in specialness may even decrease liquidity



- With dealers' market power, security lending may negatively impact liquidity

Dealers' charges full decrease in revenue

Dealers' passes on **only part** of the decrease in cost

- Bid Price = 99.75 EUR - 10 cents ; Ask price = 100.25 EUR - 5 cents
- => Bid-ask spread **increases from 50 to 55 cents!**

- “Since the repo market is crucial for market makers in the cash market, improvements of repo market liquidity may spill over to the cash market.” (page 7)

For ↘ specialness to ↗ liquidity, one needs the right asymmetry



- E.g. one could suppose that short-sellers have market power

Short-seller passes on **only part** of the decrease in cost



- Bid Price = 99.75 EUR **- 5 cents**; Ask price = 100.25 EUR **- 10 cents**
- Therefore: Bid-ask spread = **45 cents**
- => Bid-ask spread **decreases**

- With traders' market power, security lending positively impacts liquidity
- (Not very realistic model, though)

Other remarks – The authors should spell out the shock



- **Policy change (For security lending against collateral):**
 - Lending fee = Max (10bps / 5bps, Market fee), before / after the policy change
- **Unclear that the policy change decreased the cost of borrowing**
 - E.g. If market fee = 15bps, there is no shock
- **That leads to a conundrum**
 - For the policy to result in a price shock, market fee should sometimes be $< 5\text{bps}$
 - But if market fee $< 5\text{bps}$, why not borrowing from the market instead?
- **Potential solutions to the conundrum: Market breakdown or Adverse selection**
 1. Market breakdown: CB lending works only when markets are not properly functioning
 2. Adverse selection: CB lending attracts counterparties that can only borrow at high market fees

Other remarks – The authors only tested one part of the shock



- **The authors use secured money market data to test the policy change**
 - i.e. security borrowing against cash collateral
- **Yet, the policy change affected also security borrowing against security collateral**
- **Nice to have: Test the policy change on these security-against-security transactions**
 - Use data from Markit (formerly DataExplorer)

Conclusion



- **Nice paper with a neat identification**
- **Suggestion: re-focus the paper to answer a key question:**
 - “Does specialness have a direct impact on liquidity?”
- **The authors have an advantage to answer it, compared to the literature**
- **Some effort needed to**
 - develop a conceptual framework that generates sensible predictions regarding market liquidity
 - explain / exploit the conditions that lead an entity to borrow securities from the CB (instead of the market)
- **Looking forward to the next version!**