Discussion of Breaking the Feedback Loop: Macroprudential Regulation of Banks' Sovereign Exposures by Jeorge Abad

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Highlights of the paper

- ► It sheds light on the **doom loop**: negative feedback loop between banking crises and sovereign default risk.
- Dynamic general equilibrium model that focuses on the interplay between endogenous bank failure and endogenous sovereign default risk.
- It quantitatively shows that the link between bank risk and sovereign risk is an important source of systemic spillovers with sizeable effects for economic activity.
- Policy implication: Introducing regulatory capital requirements on banks sovereign debt holdings might help mitigate the negative effects of the feedback loop on economic activity.
 - welfare trade-off: non-linear relationship between risk weight on banks sovereign exposure and higher government borrowing costs + contraction in credit supply.

Inspecting the loop

- 1 Banks failure risk + government bailout ⇒ **risk shifting incentive** ⇒ banks overexposure to sovereign risk.
- 2 **Possibility** of government default ⇒ cost of bank funding increasing in banks' exposure to sovereign debt.
- ► A relatively small shock to a fraction of the banking system:
 - ► ↑ probability of government default
 - ► ↑ risk taking from banks
 - ► ↑ banks funding costs ひ

Contributions

- Quantify the dynamic general equilibrium effects of both ways of the loop.
- Study the implications of capital requirements for banks' sovereign exposure.

Comments: (I) Empirical Evidence: Italian CDS

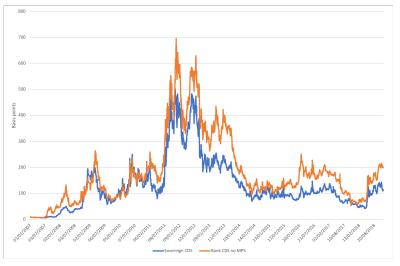


Figure: Sovereign CDS spreads and bank CDS spreads of Italy (5 years). Bank CDS = average CDS spread of Banca Intesa and Unicredit. Source: Markit CDS, Wharton Research Data Services.

Comments: (I) Empirical Evidence: Italian CDS: including MPS

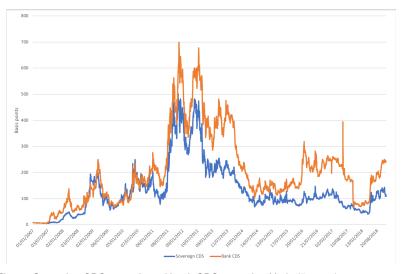


Figure: Sovereign CDS spreads and bank CDS spreads of Italy (5 years). Bank CDS = average CDS spread of Banca Intesa, Unicredit and Monte dei Paschi. Source: Markit CDS, Wharton Research Data Services.

Comments: (I) Non-linearities and Debt/GDP ratio

- Is the doom loop always at work?
- Do Banks have this risk shifting incentive for any value of Debt/GDP ratio? Or do bank stop having it over a threshold? (non-linearities)
- ► Is Fig. 3 in the paper produced matching Debt/GDP ratios of Spain and Italy?
- Does the amplification and propagation change with higher steady state debt to GDP ratio?

Comments: (II) Reverse dynamics: Shock to Fiscal Policy

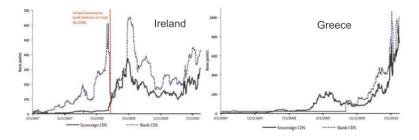


Figure: Sovereign CDS spreads and bank CDS spreads of Ireland and Greece. Source Farhi and Tirole (ReStud 2018)

Comments: (II) Fiscal Policy shock and International Investors

- ► Why not looking at a shock originating from the public finances and feeding into the banking system?
- ► [Broner et al., 2018] recently showed that the size of fiscal multipliers is increasing in the share of public debt held by foreigners.
- Complementary story to yours. Another reason why banks should not overexpose to domestic debt!

Comments: (III) International Investors, sensitivity and Long term bonds

- Counter-intuitive that foreign investors increase absolute bond holdings after a shock to the banking system. Any evidence on that?
- Sensitivity of calibration:
 - relative risk aversion between home and foreigners investors.
 - Write off parameter of sovereign debt.
 - ► Bankers exit rate and bankruptcy costs
- ▶ Introducing Long term bonds?

Comments: (IV) Heterogeneous Banks exposure to Sovereigns

- ▶ Do different Banks have the same risk shifting incentive?
- Data on individual banks exposure to Sovereigns available from the European Banking Authority for 2011-2014-2016.
- ▶ 2018 detailed data not yet published (?).
- Evidence of substantial heterogeneity in the Banks exposure to sovereigns.

Comments: (IV) Heterogeneous Banks exposure to Sovereigns

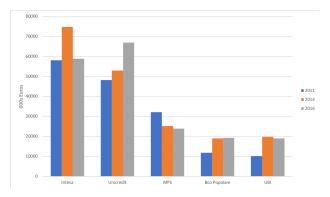


Figure: Banks exposure to the Italian government. Source www.eba.europa.eu Following Boccola (JPE 2016) Exposure for each bank = net direct long exposure + direct sovereign exposure in derivatives (all maturities).

Conclusions

- Really enjoyed reading the paper.
- Extremely relevant for current policy discussion on financial stability.
- Step forward our understanding of the negative feedback loop between banking crises and sovereign default risk.
- 1. Empirical evidence.
- Non-linearities between the feedback loop and steady state Debt to GDP ratio.
- 3. Why looking only at a shock originating from one side of the loop?



Broner, F., Clancy, D., Erce, A., and Martin, A. (2018).

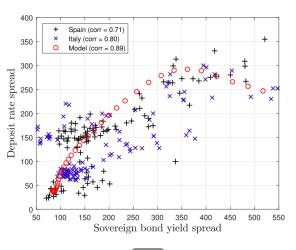
Fiscal Multipliers and Foreign Holdings of Public Debt.

Extra: (V) Minor points/extra comments

- ▶ Why do you need x_t if you assume it =1 throughout?
- ▶ It would be good to see the difference between a 2nd/3rd order approximation of the model with your solution and compare them in an appendix.
- ► Are you excluding debt held by domestic agents other than banks? what about countries with high private savings?
- Can you relax the assumption of perfect competition amongst banks?

Comments: (I) Non-linearities and Debt/GDP ratio

Figure 3: Sovereign yield and deposit rate spreads: model vs. data



▶ return