

Discussion of
**The Limited Power of
Monetary Policy in a Pandemic**
by A. Lepetit and C. Fuentes-Albero

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The Paper

- Question: How effective is monetary policy during a raging pandemic?
- Answer: Not much effective.
- Framework: Standard New Keynesian model with standard epidemiology bloc (SIR):
 - Two-way interaction between macroeconomy and epidemic.

The Paper

- Key result I: Accommodative monetary policy less powerful during raging pandemic.
 - Intuition: consumption activities generate infections → households reduce consumption to reduce infection risk.
 - Epidemic dynamics of first order importance for consumption. Real interest rate channel muted/less efficacious.
 - Monetary policy better suited to support recovery once the pandemic wanes.
 - Important to model two-way interaction of macro-epi.

The Paper

- Key result II: Welfare analysis suggest monetary policy should keep hands off economy during raging pandemic.
 - Intuition: infection externality -> households don't adjust consumption enough in competitive equilibrium compared to planner solution.
 - Monetary accommodation moves output in 'wrong' direction, i.e. away from planner solution which takes infection externality into account.

The Paper

- Very interesting and inspiring paper.
- Lots of great food for thought.

The Power of Monetary Policy

- Key takeaway of Lepetit and Fuentes-Albero paper:
 - Power of monetary policy limited during raging pandemic.
 - Real interest rate channel muted.
- Stark contrast to conclusions by Ascari, Colciago and Silvestrini (2021, Business Dynamism, Sectoral Reallocation and Productivity in a Pandemic, DNB).

Ascari, Colciago and Silvestrini (2021)

- New Keynesian model with two sectors and epi dynamics:
 - Infectious and non-infectious consumption sector.
 - Two-way interaction between epidemic and macroeconomy.
- Key result: model implies monetary policy can be very powerful even in a raging pandemic:
 - Intuition: real rate drop stimulates non-infectious consumption.
 - Sectoral reallocation and less severe recession.
 - Powerful real interest rate channel.

The Power of Monetary Policy

- One vs. two sector model setup seems crucial for conclusions about quantitative effects of monetary policy during pandemic.
 - More quantitative analysis much welcome.
- Both models also differ somewhat in terms of nominal rigidities, epi-macro setup, monetary policy, ZLB etc.
How important are these for the different conclusions?

Optimal Policy

- Quantitative analysis on government containment measures to deal with epi infection externality not considered (so far).
 - Optimal simple containment (one instrument).
 - Optimal smart containment (multiple instruments).
 - How does optimal containment look like in the model?

Optimal Policy

- How does Ramsey optimal monetary policy during a pandemic look like with and without optimal epi containment?
 - Optimal monetary-containment policy mix.
 - Epidemic works through supply and demand channels.
 - Depending on strength of either channel, inflation and output can move in same or opposite directions. Tradeoff for monetary policy possible.

Further Remarks

- Baseline simulation captures salient facts of the pandemic and recession. Focus on quantitative match of model vs. data would be welcome.
- Why does the central bank react to output in deviation from steady state and not to output in deviation from flexible price output?

Further Remarks

- Modeling of shocks to transmission function (π_1 , π_2 , π_3) opaque and unclear.
 - Time indices missing. How do these shocks look like? How important are they for the baseline? How can these shocks be measured from the data?
- Figure 6 indicates that forward guidance mostly pushes inflation up in a pandemic. That's an interesting result that deserves more spotlight.

Further Remarks

- Add infections curve to Figures 3-5 to help reader understanding state of epidemic over time.
- Plot steady state inflation and interest rates in Figure 2.
- Why condition forward guidance on two quarters?

- Very interesting and inspiring paper.
- Lots of great food for thought.