U.S. Monetary Policy Spillovers to Emerging Markets: Both Shocks and Vulnerabilities Matter

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The paper

• How does a US monetary tightening transmit to EMEs?

- Calibrated New Keynesian two-country DSGE model with financial frictions and EME vulnerabilities:
 - 1 foreign currency-denominated debt
 - dominant currency pricing
 - igh exchange rate pass-through/un-anchored inflation expectations

• "Pure" US monetary policy shock and US aggregate demand shock

Results

- ullet Non-vulnerable EME: low FX debt, PCP, anchored $\mathbb{E}\left[\pi
 ight]$
 - ⇒ spillovers are quantitatively small and "manageable"

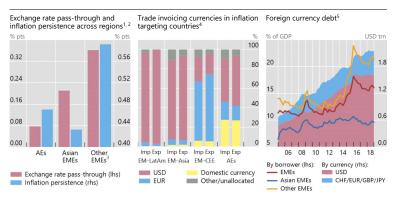
- ullet Vulnerable EME: high FX debt, DCP, un-anchored $\mathbb{E}\left[\pi
 ight]$
 - ⇒ spillovers are quantitatively large and give rise to MP tradeoffs

Policy implications

- ullet Non-vulnerable EME: low FX debt, PCP, anchored $\mathbb{E}\left[\pi\right]$
 - ⇒ spillovers are quantitatively small and "manageable"
 - ⇒ very close to a Mundell-Fleming world

- ullet Vulnerable EME: high FX debt, DCP, un-anchored $\mathbb{E}\left[\pi
 ight]$
 - ⇒ spillovers are quantitatively large and give rise to MP tradeoffs
 - → need additional policy tools: FXI, CFMs, MaPP
 - IMF IPF: Basu, Boz, Gopinath, Roch and Unsal (2020); Adrian, Erceg, Linde, Kolasa and Zabczyk (2022)

Non-vulnerable EMEs?

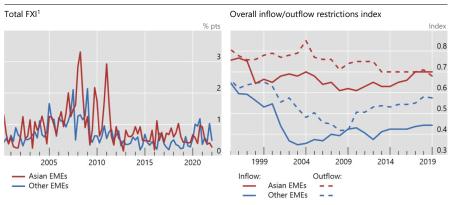


EMEs = BR, CL, CO, CZ, HU, ID, IN, KR, MX, PE, PH, PL, RU, TH, TR and ZA; AEs = AU, CA, GB, NO, NZ and SE.

Sources: G Gopinath, "The international price system", in proceedings of the Federal Reserve Bank of Kansas City Jackson Hole symposium, August 2015: Datastream: Dealogic Euroclear: Refinitiv Xtrakter Ltd: national data: BIS locational banking statistics (LBS): BIS calculations.

¹ Coefficients are six-year rolling window long-run multipliers from the equation $Inflation_{it} = a_i + \beta_i + \delta Inflation_{it-1} - \Sigma_{j=0}^3 \gamma_j \Delta NEER_{it-j} + \phi Outptutgap_{it} + \varepsilon_{it}$. Sample starts in Q1 1995. For details, see M JaSová, R Moessner and E Takás, "Exchange rate pass-through: what has changed since the crisis?", International Journal of Central Banking, forthcoming, 2019. Also published as BIS Working Papers, no 583. ² As of Q4 2018. ³ BR, CL, CO, MX, PE, RU, TR and ZA. ⁴ Simple averages across the countries within each region; based on 15 inflation targeting economies with available data. LatAm = Latin America; CEE = central and eastern Europe. ⁵ Cross-border and local bank loans extended by LBS-reporting banks to EME non-bank borrowers and international debt securities issued by non-banks residing in EMEs. Non-banks comprise non-bank financial entities, non-financial corporations, governments, households and international organisations.

Non-vulnerable EMEs?



¹ Proxied in percentage points of 3-year moving average GDP.

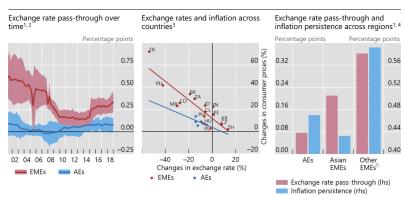
Sources: Adler, Gustavo, Kyun Suk Chang, Rui C. Mano, and Yuting Shao. 2021. "Foreign Exchange Intervention: A Dataset of Public Data and Proxies," IMF Working Paper Series 21/47, International Monetary Fund, Washington D.C.; Fernández, Klein, Rebucci, Schindler and Uribe (2016) "Capital Control Measures: A New Dataset" IMF Economic Review, Vol. 64 (3): 548-574, 2016; BIS calculations.

Other financial channels?

- **Original sin redux**: local currency borrowing shifts the currency mismatch problem to the balance sheet of global lenders
 - Exchange rate movements can affect lending capacity and trigger capital flow reversal
 - Carstens and Shin (2019); Hofmann, Patel and Wu (2022)
- Shallow domestic financial markets: lack of sizable domestic investor base and/or underdeveloped financial markets
 - This leave EMEs dependent on external borrowing, irrespective of currency denomination
 - Cavallino and Sandri (2019); Cavallino and Hofmann (2022)

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Un-anchored $\mathbf{E}[\pi]$: credibility or ex rate pass-through?



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Sources: Datastream: national data: BIS calculations.