

Policy Rules and Large Crises in Emerging Countries

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New Challenges for Fiscal & Monetary Policy

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Policy Rules and Large Crises in Emerging Countries

Emerging economies are adopting **policy rules** to strengthen macroeconomic stability.

- ▶ **Fiscal rules**: debt ceilings, balanced budgets.
- ▶ **Monetary rules**: inflation targeting, money supply limits.

Should rules be **suspended** during crises for **flexibility** or maintained for **credibility**?

Policy Rules and Flexibility During Crises in a Model of Sovereign Default

Steady State: Fiscal rules yield larger welfare gains than monetary rules.

Crisis - Suspension of rules:

- ▶ Gains from suspending monetary rules exceed those from fiscal rules.
- ▶ Suspend monetary rule: Loose monetary policy, valuable during crisis.
- ▶ Suspend fiscal rule: Lenders already impose discipline, limiting debt increase.

Crisis - Abandonment of rules:

- ▶ Losses from abandoning fiscal rules exceed those from monetary rules.
- ▶ Higher sovereign debt spreads and welfare losses due to debt dilution.

Model

Framework: Tradable-Nontradable Model

Small open economy model with tradable and non-tradable goods.

Incorporate: production, fiscal policy, monetary policy, and sovereign default.

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Goods

- ▶ Non-tradable (c^N, y^N) : consumed and produced domestically.
- ▶ Imported good c^T : consumed domestically.
- ▶ Exported good y^T : produced domestically.
- ▶ Public good g : produced from non-tradable output.

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Endogenous prices

- ▶ Non-tradable goods (p^N)
- ▶ Wages (w)
- ▶ Nominal exchange rate (e)

The Firm's Problem: Profit Maximization

A representative firm maximizes profits:

$$\begin{aligned} \max_{y^N, y^T, h} \quad & p^N y^N + e p^T \overbrace{(1 - \phi)}^{\text{Trade frictions}} y^T - wh \\ \text{subject to} \quad & A(I)F(y^N, y^T) - h \leq 0 \end{aligned}$$

- ▶ $I = \{P, D\}$ indicates the government's credit standing (pay or default).
- ▶ Productivity: $A(I)F(y^N, y^T)$ determines the hours required to produce (y^N, y^T)

The Problem of the Household

$$V(m, B, I) = \max_{c^N, c^T, m', h} u(c^N, c^T) + v(1 - h) + \vartheta(g) + \beta \mathbb{E} [V(m', B', I') \mid B, I]$$

subject to

$$\begin{aligned} p^N c^N + e(1 + \phi)c^T + m'(1 + \mu) &\leq (1 - \tau)wh + m + p^N \gamma \\ p^N c^N &\leq \theta m \end{aligned}$$

Cash-in-advance (CIA): velocity of money θ

Government:

- ▶ g : government spending
- ▶ μ : money growth rates distorts saving decisions m'
- ▶ τ : Labor income tax rate
- ▶ γ : Lump-sum transfers, received in units of non-tradable goods.

Government Budget Constraint and Balance of Payments

- ▶ **Government Debt:** Long-term, defaultable, and denominated in foreign currency.
- ▶ **Expenditure:** Public goods g , and exogenous transfers γ .
- ▶ **Revenue Sources:** τ taxes on labor, μ seigniorage, and B' borrowing.

Government Budget Constraint:

$$\underbrace{p^N(g + \gamma)}_{\text{Expenditure}} + \underbrace{e\delta B}_{\text{Debt repayments}} = \underbrace{\tau wh}_{\text{Tax revenue}} + \underbrace{\mu}_{\text{Seigniorage}} + \underbrace{eQ(B')[B' - (1 - \delta)B]}_{\text{Net borrowing}}$$

Balance of Payments: Expressed in foreign currency

$$\underbrace{(1 - \phi)p^T y^T - (1 + \phi)c^T}_{\text{Net exports}} = \underbrace{\delta B}_{\text{Debt repayments}} - \underbrace{Q(B')[B' - (1 - \delta)B]}_{\text{Net borrowing}}$$

Repayment vs Default

Default Consequences: Temporary **exclusion** from credit markets and **lower productivity**.

Government chooses between repayment (P) and default (D):

$$\hat{V}(B, \varepsilon) = \max\{V^P(B) + \varepsilon, V^D\}$$

where ε is an i.i.d. shock drawn from a logistic distribution with variance ζ .

Repayment Probability:

$$\mathcal{P}(B) = \Pr[V^P(B) - V^D \geq -\varepsilon] = \frac{\exp\left(\frac{V^P(B)}{\zeta}\right)}{\exp\left(\frac{V^P(B)}{\zeta}\right) + \exp\left(\frac{V^D}{\zeta}\right)}$$

Continuation Value:

$$\mathcal{V}(B) = \zeta \log \left[\exp\left(\frac{V^P(B)}{\zeta}\right) + \exp\left(\frac{V^D}{\zeta}\right) \right]$$

Debt Pricing:

$$Q(B') = \frac{1}{1+r} [\mathcal{P}(B') (\delta + (1-\delta)Q(B'))]$$

Government optimization: Repayment

$$V^P(B) \equiv \max_{B', c^N, c^T, y^T, \mu, \tau, g} u(c^N, c^T) + v(1 - h) + \vartheta(g) + \beta V(B')$$

subject to

1. government budget constraint
2. balance of payment constraint
3. households and firms making optimal decisions
4. markets clearing: $c^N + g = y^N$, $A(I)F(y^N, y^T) = h$
5. constraints imposed by rules (if they apply):
 - ▶ Monetary policy: $\mu = \mu^*$
 - ▶ Fiscal policy: $B' < B^*$

Government optimization: Default

$$V^D \equiv \max_{c^N, c^T, y^T, \mu, \tau, g} u(c^N, c^T) + v(1 - h) + \vartheta(g) + \beta \mathbb{E}[\underbrace{\pi}_{\text{re-entry prob}} \mathcal{V}(0) + (1 - \pi)V^D]$$

subject to

1. government budget constraint
2. balance of payment constraint
3. households and firms making optimal decisions
4. markets clearing: $c^N + g = y^N$, $A^D(I)F(y^N, y^T) = h$
5. Rules are not enforced during default

Calibration

Quantitative analysis

Data:

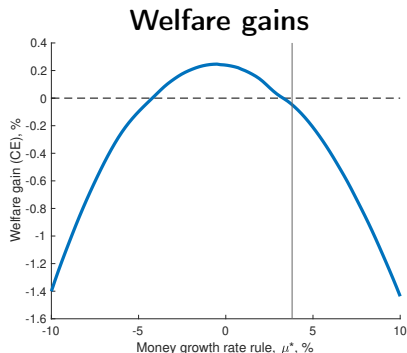
- ▶ Seven Latin American countries (1980–2018). ▶ [Calibration](#)
- ▶ EKMS (2024) studies the case with stochastic term-of-trade and TFP.

Roadmap:

1. Derive optimal monetary and fiscal rules in normal times.
2. Use COVID-19 to simulate a large, unexpected crisis
3. Evaluate welfare gains: Maintain, suspend, or abandon rules

Policy Rules

Monetary policy rule: $\mu = \mu^* = -0.5\%$



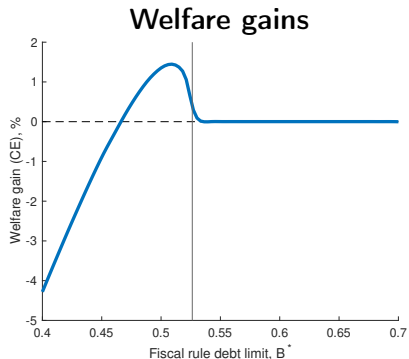
The vertical line corresponds to the value of the policy in a steady state without rules. Welfare gains as % of nontradable consumption.

	Discretion	Money growth $\mu^* = -0.50\%$
Debt / GDP	0.365	0.363
Inflation	0.038	-0.005
Tax rate	0.240	0.269
Expenditure / GDP	0.250	0.251
Real GDP	1.000	0.993
Employment	0.587	0.586
Exports / GDP	0.209	0.200
Default probability	0.020	0.021
Welfare gains, %	—	0.250

Gains because of
time-consistency
problem in μ

No gains
when $\sigma = 1$

Fiscal policy rule: $B' \leq B^* = 0.51$



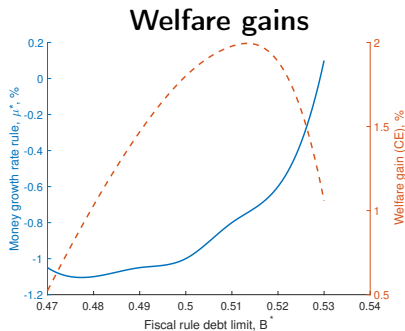
The vertical line corresponds to the value of the policy in a steady state without rules. Welfare gains as % of nontradable consumption.

	Discretion	Debt ceiling
		$B^* = 0.51$
Debt / GDP	0.365	0.351
Inflation	0.038	0.036
Tax rate	0.240	0.238
Expenditure / GDP	0.250	0.250
Real GDP	1.000	1.000
Employment	0.587	0.587
Exports / GDP	0.209	0.207
Default probability	0.020	0.010
Welfare gains, %	—	1.450

Gains because of
over-borrowing due
to debt dilution

No gains
with short-term
debt

Fiscal and Monetary Rules: $\mu = \mu^* = -0.81\%$, $B \leq B^* = 0.51$



Optimal money growth rate target μ^* as a function of debt limit B^* .

	Discretion	Both $\mu^* = -0.80\%$ $B^* = 0.51$
Debt / GDP	0.365	0.347
Inflation	0.038	-0.008
Tax rate	0.240	0.268
Expenditure / GDP	0.250	0.251
Real GDP	1.000	0.992
Employment	0.587	0.586
Exports / GDP	0.209	0.197
Default probability	0.020	0.010
Welfare gains, %	—	1.978

Optimal μ increases
as the debt
limit increases

Complementarity
between fiscal
and monetary rules

Large Crises

Large Crises: Modeling a COVID-19 shock

Optimal monetary and fiscal rules:

1. Imposed prior to shock
2. **Suspended** during crisis
3. Reimposed afterwards

Unexpected shocks

Shock	Target
Productivity, ω_0	Δ Real GDP -9.5 %
Transfers γ	Δ Expenditure / GDP 4.1 pp
Trade costs ϕ	Δ Imports -15.4 %
Liquidity θ	Δ Inflation -0.2 pp
Cost of default ω_2	Δ Credit spreads 96.2 bps

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Non-targeted moments

	Data	Model
Δ GDP USD, %	-18.6	-21.9
Δ Employment, pp	-7.3	-2.9
Δ Exports, %	-13.2	-13.9
Δ Debt / GDP, pp	5.2	12.7
Δ Tax rate, pp	-0.8	-9.9
Δ Money growth rate, pp	28.9	15.8
Δ Depreciation, pp	8.2	13.0
Δ Inflation in 2021, pp	6.3	18.0
Welfare gain of shock, %		-13.1

High cost, equivalent to a one-period drop in non-tradable consumption of 13.1%.

Gains from flexibility during large crises

- ▶ Fiscal and monetary rules are in place before the crisis.
- ▶ What happens when the shock hits? Three cases:
 - ▶ Rules are **maintained**
 - ▶ Rules are **suspended for the duration of the crisis** (benchmark)
 - ▶ Rules are **abandoned**
- ▶ Why consider abandoning the rules?
 - ▶ Country may lack commitment to reinstate rules suspended during a crisis.

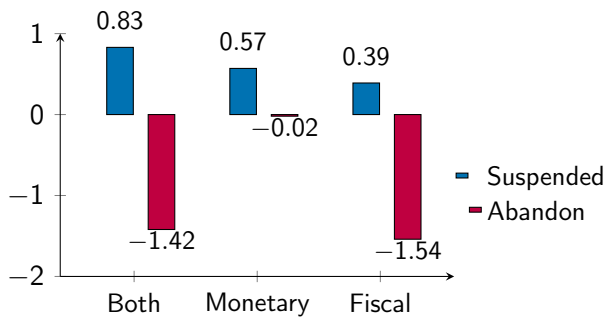
Maintaining, suspending, or abandoning both rules

	Both rules Maintained	Both rules Suspended	Both rules Abandoned
Δ Real GDP, %	-12.13	-9.49	-9.54
Δ Debt / GDP, %	26.95	36.64	36.88
Δ Money growth rate, pp	0.00	15.81	16.31
Δ Tax rate, pp	4.73	-9.87	-9.60
Δ Primary deficit / GDP, pp	-0.41	13.92	13.59
Δ Credit spreads, bps	94.58	96.28	218.57
Δ Inflation, pp	-1.21	-0.19	0.52
Δ Inflation 2021, pp	1.23	18.01	18.24
Welfare gains of shocks, %	-13.85	-13.13	-15.10
Welfare gains of flexibility, %	—	0.83	-1.42

Larger fiscal adjustment
if maintaining rules

Abandoning rules
generates
welfare losses

Welfare Gains of Flexibility: Fiscal vs. Monetary Rules



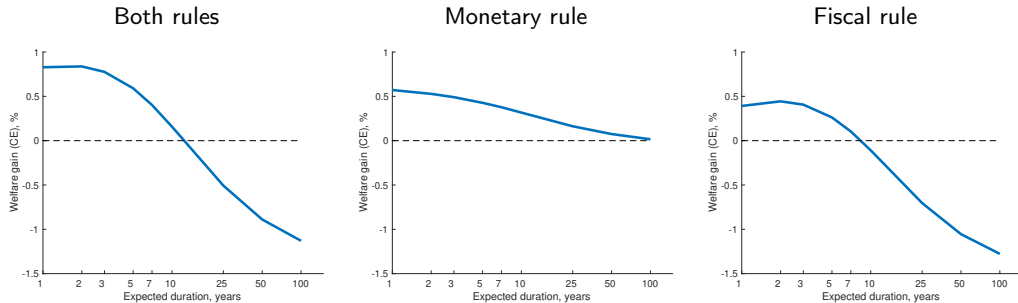
Suspending rules

- ▶ Gains of suspending **monetary** rule larger than suspending the **fiscal** rule
- ▶ Sovereign debt markets impose fiscal discipline as rules will return

Abandoning rules

- ▶ Losses from abandoning the **fiscal** rule larger than those of the **monetary** rule
- ▶ Significant increase in default probability and spreads (debt dilution)

What if rules remain suspended after crisis ends?



- ▶ Positive gains when both rules are expected to be suspended for up to 14 years
- ▶ Flat for a number of years after the crisis ends
- ▶ Reimposing rules can be safely delayed

Unpacking the gains from flexibility during large crises

TFP	Shocks				Both rules are		Monetary rule is		Fiscal rule is	
	γ	ϕ	θ		Suspended	Abandoned	Suspended	Abandoned	Suspended	Abandoned
✓	✓	✓	✓		0.83	-1.42	0.57	-0.02	0.39	-1.54
✓	✓	✓	×		0.39	-1.72	0.19	-0.35	0.25	-1.58
✓	✓	×	✓		0.49	-1.74	0.40	-0.20	0.17	-1.75
✓	×	✓	✓		0.56	-1.67	0.32	-0.26	0.33	-1.59
×	✓	✓	✓		0.66	-1.54	0.46	-0.12	0.31	-1.58

- ▶ Suspending a rule is always beneficial (unanticipated crisis and lasts one period)
- ▶ The value of abandoning is always detrimental for welfare
- ▶ Benefits of suspension diminish when the shock to money demand, θ , is absent

Monetary and fiscal rules in emerging countries

In normal times:

- ▶ rules mitigate time-consistency problems in debt choice
- ▶ debt limit particularly beneficial as the debt-dilution problem is severe
- ▶ monetary and fiscal rules are complementary

During times of crisis:

- ▶ flexibility might be warranted to implement a better policy response
- ▶ **Caution:** prolonged suspension of rules beyond crisis may lead to welfare losses

Appendix

Related Literature

- ▶ Sovereign Default

Eaton and Gersovitz (1981); Aguiar and Gopinath (2006); Arellano (2008); **Hatchondo and Martinez (2009)**; Chatterjee and Eyigungor (2012).

- ▶ Sovereign Default + Fiscal Policy

Cuadra, Sánchez, and Sapriza (2010); Bianchi, Ottonello, and Presno (2023).

- ▶ Sovereign Default + Monetary Policy

Na, Schmitt-Grohé, Uribe, and Yue (2018); Arellano, Bai, and Mihalache (2020); Bianchi and Sosa-Padilla (2023); **Espino, Kozlowski, Martin, and Sánchez (2024)**.

- ▶ Sovereign Default + Policy Rules

Bianchi and Mondragon (2021); Hatchondo, Roch, and Martinez (2022).

Functional forms

Preferences:

$$u(c^N, c^T) = \alpha^N \frac{(c^N)^{1-\sigma}}{1-\sigma} + \alpha^T \frac{(c^T)^{1-\sigma}}{1-\sigma}, \quad v(\ell) = \alpha^H \frac{\ell^{1-\varphi}}{1-\varphi}.$$

Labor requirement for production:

$$F(y^N, y^T) = \left[(y^N)^\rho + (y^T)^\rho \right]^{1/\rho}$$

Cost of default:

$$A(P) = \omega_0^{-1}, \quad A(D) = (\omega_0 - \omega_1)^{-1}$$

Cost of default in crisis:

$$A(D) = (\omega_0 - \max\{\omega_1 + \omega_2 \times \text{gap}(\omega_0, \gamma, \theta, \phi), 0\})^{-1}$$

where *gap* is the deviation from the steady state of the GDP in dollars.

Exogenous Parameters

Parameter	Description	Value	Basis
r	risk-free rate	0.03	Long-run average
φ	curvature of leisure	1.50	Frisch elasticity
α^T	preference share for c^T	1.00	Normalization
θ	velocity of circulation	1.00	Normalization
ϕ	trade cost	0.00	Normalization
p^T	price of exports	1.00	Normalization
π	re-entry probability	0.17	Exclusion duration
δ	fraction of maturing coupons	0.20	Debt maturity
σ	curvature of $u(c^N, c^T)$	0.50	EKMS
ρ	elasticity of substitution in $F(y^N, y^T)$	1.50	EKMS

Parameters calibrated internally and matched statistics

Parameter	Value	Statistic	Target
β	0.8563	Inflation, %	3.800
γ	0.1082	Transfers/GDP	0.117
α^H	0.9366	Employment/Population	0.587
α^G	0.4397	Gov. Consumption/GDP	0.133
α^N	2.7880	Exports/GDP	0.209
ω_0	1.4575	Real GDP	1.000
ω_1	0.1034	Debt/GDP	0.365
ζ	0.0663	Default, %	2.000

COVID-19 Impact on Real GDP Growth in 2020

To calibrate the shock, we target the impact of COVID-19 on some macro variables.
The impact of COVID-19 is the difference between the data for 2020 and the WEO forecast for 2020 made in October on 2019.

Country	Actual GDP (%)	WEO Forecast (%)	Impact (%)
Argentina	-9.9	-1.3	-8.6
Brazil	-4.1	2.0	-6.1
Chile	-5.8	3.0	-8.9
Colombia	-6.8	3.6	-10.4
Mexico	-8.3	1.3	-9.6
Peru	-11.0	3.6	-14.6
Uruguay	-5.9	2.3	-8.2
Average	-7.4	2.1	-9.5

Welfare gains

Value in the repayment and default states, given compensation Δ :

$$V^P(B, \Delta) = u\left((1 + \Delta) c^N, c^T\right) + v(1 - h) + \vartheta(g) + \beta \mathcal{V}(B')$$

$$V^D(\Delta) = u\left((1 + \Delta) c^N, c^T\right) + v(1 - h) + \vartheta(g) + \beta \delta \mathcal{V}(0) + \beta (1 - \delta) V^D$$

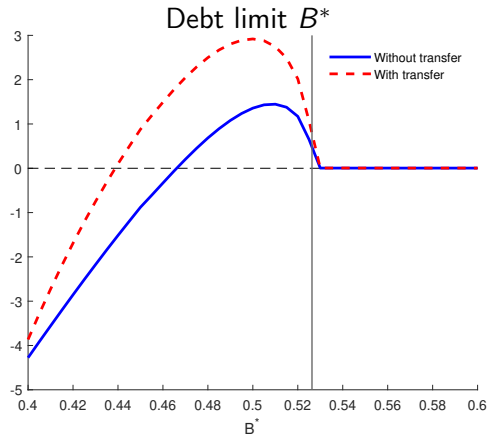
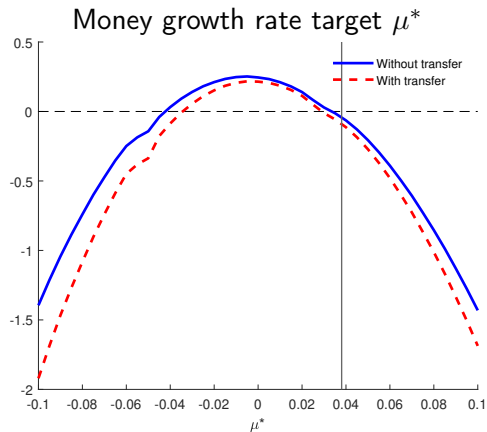
Ex ante value (before the extreme value shock is realized) is given by

$$\mathcal{V}(B, \Delta) = \zeta \log \left[\exp \left(\frac{V^P(B, \Delta)}{\zeta} \right) + \exp \left(\frac{V^D(\Delta)}{\zeta} \right) \right]$$

Let $\mathcal{V}^R(B)$ be the corresponding value function under policy rule $R = \{\mu^*, B^*\}$. For a given debt level B , the welfare measure Δ solves:

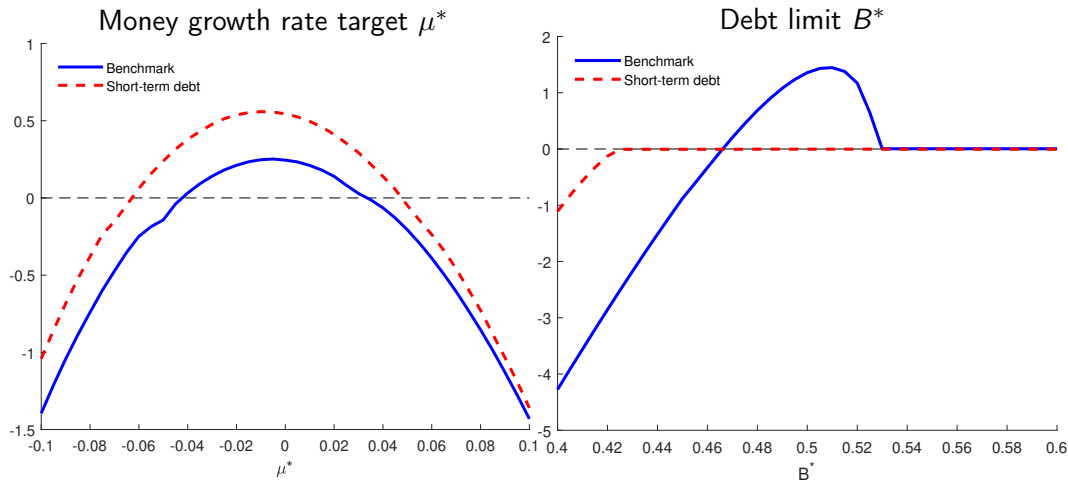
$$\mathcal{V}(B, \Delta) = \mathcal{V}^R(B)$$

Welfare implications with indifferent lenders



Note: Debt is at the steady state value, $B = B^{ss}$.

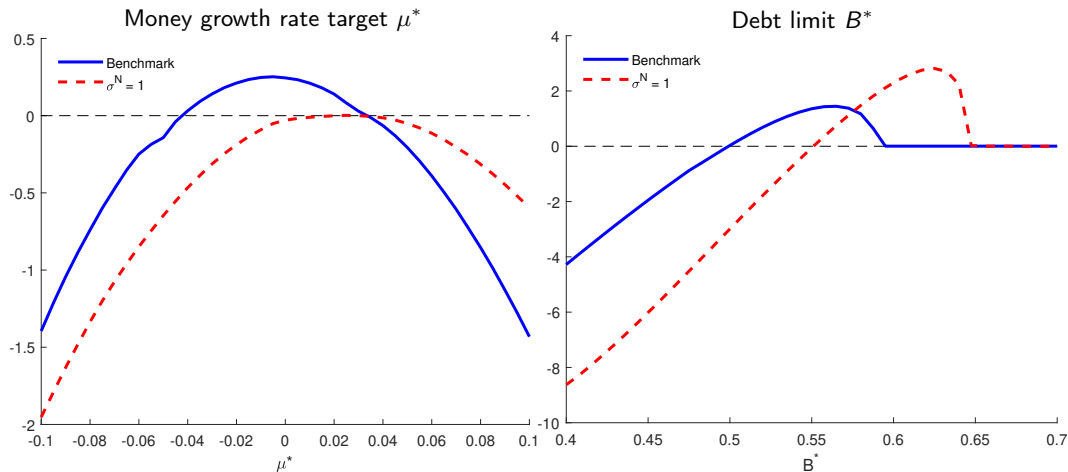
Short-term debt



Note: Debt is at the steady state value, $B = B^{ss}$.

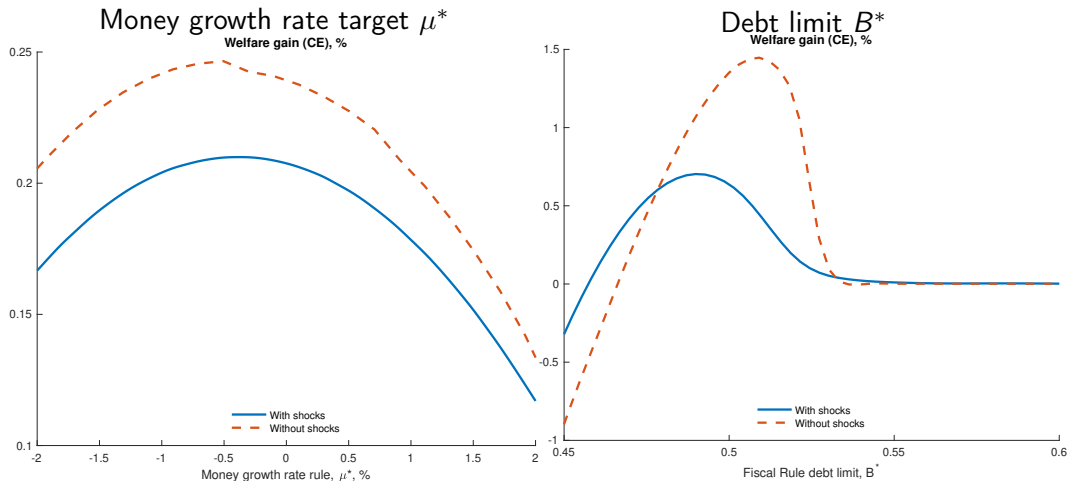
Money demand

With $\sigma^N = 1$, the intertemporal distortion in debt choice, which stems from a time-consistency problem due to the demand for money, disappears.



Note: Debt is at the steady state value, $B = B^{ss}$.

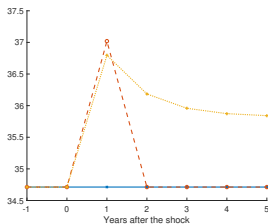
Expected terms of trade shocks



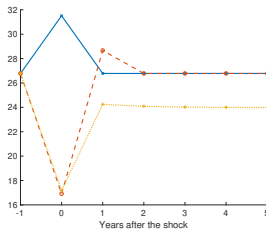
Note: Debt is at the steady-state value, $B = B^{ss}$.

Dynamics of a large crisis

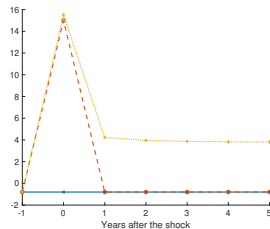
Debt/GDP₋₁, %



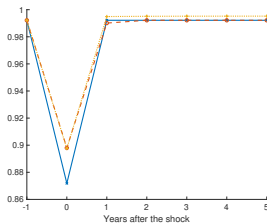
Tax rate, %



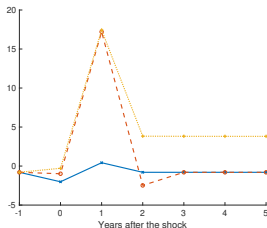
Money growth rate, %



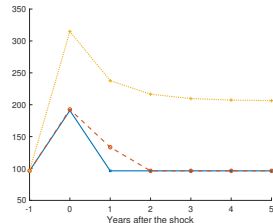
Real GDP



Inflation, %



Credit spreads, bps



-- Suspended
 — Maintained
 --- Abandoned

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Maintaining, suspending, or abandoning monetary rule

	Both rules Maintained	Monetary Suspended	Monetary Abandoned
Δ Real GDP, %	-12.13	-9.30	-9.41
Δ Debt / GDP, %	26.95	30.90	31.26
Δ Money growth rate, pp	0.00	17.94	17.90
Δ Tax rate, pp	4.73	-9.16	-9.06
Δ Primary deficit / GDP, pp	-0.41	12.94	12.85
Δ Credit spreads, bps	94.58	74.80	95.66
Δ Inflation, pp	-1.21	1.72	1.99
Δ Inflation 2021, pp	1.23	15.95	16.99
Welfare gains of shocks, %	-13.85	-13.35	-13.87
Welfare gains of flexibility, %	—	0.57	-0.02

Rule forces
substitution
between μ and τ

Similar to
inflation targeting

Maintaining, suspending, or abandoning fiscal rule

	Both rules Maintained	Fiscal Suspended	Fiscal Abandoned
Δ Real GDP, %	-12.13	-11.91	-11.92
Δ Debt / GDP, %	26.95	33.28	33.42
Δ Money growth rate, pp	0.00	0.00	0.00
Δ Tax rate, pp	4.73	2.40	2.90
Δ Primary deficit / GDP, pp	-0.41	2.18	1.61
Δ Credit spreads, bps	94.58	117.94	242.09
Δ Inflation, pp	-1.21	-2.99	-2.70
Δ Inflation 2021, pp	1.23	5.14	3.78
Welfare gains of shocks, %	-13.85	-13.51	-15.20
Welfare gains of flexibility, %	—	0.39	-1.54

Rule reduces
borrowing and
increases μ

Suspending and
abandoning rule
implies \uparrow spreads

Rules vs. flexibility when the crisis is expected to last for two years

	Both rules are			Monetary rule is		Fiscal rule is	
	Suspended	Maintained	Abandoned	Suspended	Abandoned	Suspended	Abandoned
Δ Real GDP, %	-8.57	-11.35	-8.61	-8.57	-8.62	-11.35	-11.44
Δ Debt / GDP, %	27.01	21.90	26.30	27.01	26.79	21.90	21.35
Δ Tax rate, pp	-9.15	6.12	-8.87	-9.15	-9.04	6.12	6.63
Δ Primary deficit / GDP, pp	12.64	-2.12	12.29	12.64	12.51	-2.12	-2.68
Δ Money growth rate, pp	19.84	0.00	20.44	19.84	20.01	0.00	0.00
Δ Credit spreads, bps	497.58	647.62	752.54	497.57	562.59	647.48	916.19
Δ Default probability, pp	13.62	17.20	18.78	13.61	15.21	17.19	22.09
Δ Inflation, pp	1.80	-1.94	2.63	1.80	2.13	-1.94	-1.42
Δ Inflation 2021, pp	16.80	1.11	17.33	16.80	17.65	1.11	0.33
Welfare gains of shocks, %	-22.53	-23.08	-24.29	-22.53	-23.00	-23.08	-24.60
Welfare gains of flexibility, %	0.66	—	-1.46	0.66	0.10	0.00	-1.84

- ▶ Suspending only the fiscal rule does not yield any welfare gains
- ▶ Large surge in credit spreads \rightarrow fiscal rule not binding