

Online Appendix
for
**“Financial institutions’ business models and the global
transmission of monetary policy”¹**

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Table OA1: Bank Lending Local Claims - Non-bank Private

The dependent variable is log changes in local claims to foreign residents in the non-bank private sector. The first column contains results from the model without any channel interaction terms; The rest of the columns contain results from interactions with the bank lending channels. The data are quarterly from 2000Q1 to 2015Q4 for a panel of domestically-owned banks with foreign exposures. All specifications include bank and counterparty country fixed effects. Standard errors are clustered by bank. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

Panel A: Netherlands

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Short term (wholesale) funding ratio	Liquid asset ratio	Net intragroup funding to the affiliate in j / total assets	Log total assets
$\Sigma\Delta MP$ domestic_t to t-3	0.099*** [0.006]	0.137** [0.011]	-0.031** [0.014]		-0.012 [0.912]
$\Sigma\Delta MP$ domestic_t to t-3*channel_t-4		-0.001** [0.025]	0.003 [0.532]		0.008 [0.357]
Total effect of $\Sigma\Delta MP$ terms for median bank		0.106 [0.242]	0.076** [0.016]		0.060 [0.128]
Log total assets_t-1	0.006 [0.869]	0.024 [0.503]	-0.005 [0.884]		
Tier 1 ratio_t-1	-0.003 [0.399]	-0.001 [0.739]	-0.002 [0.550]		-0.003 [0.420]
Liquid asset ratio_t-1	-0.000 [0.997]	0.000 [0.961]			-0.000 [0.898]
Net IG funding ratio_t-1					
Core deposits ratio_t-1	0.002 [0.242]	0.002 [0.286]	0.001 [0.321]		-0.000 [0.341]
Channel_t-4		0.001 [0.395]	0.001 [0.210]		0.058 [0.218]
Business cycle domestic_t-1	-0.010* [0.053]	-0.010** [0.048]	-0.010* [0.050]		-0.010* [0.057]
Business cycle_j,t-1	-0.004 [0.439]	-0.004 [0.409]	-0.006 [0.218]		-0.004 [0.425]
Financial cycle domestic_t-1	0.001 [0.256]	0.001 [0.403]	0.001 [0.358]		0.002 [0.175]
Financial cycle_j,t-1	-0.000 [0.557]	-0.000 [0.582]	-0.000 [0.404]		-0.000 [0.674]
ΔMP _j,t-1	0.003 [0.657]	0.004 [0.606]	0.006 [0.436]		0.004 [0.567]
VIX_t-1	0.001 [0.295]	0.001 [0.479]	0.001 [0.536]		0.000 [0.674]
Observations	2,609	2,596	2,495		2,596
R-squared	0.023	0.024	0.030		0.025
Adjusted R-squared	0.006	0.005	0.010		0.006
Number of banks	7	7	8		7
Number of countries	26	26	26		26
Monetary policy choice	Δ Short rate	Δ Short rate	Δ Short rate		Δ Short rate
Monetary policy counterparty country	Δ Short rate	Δ Short rate	Δ Short rate		Δ Short rate
Channel studied	Bank lending	Bank lending	Bank lending		Bank lending

Panel B: Spain

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Short term (wholesale) funding ratio	Liquid asset ratio	Net intragroup funding to the affiliate in j / total assets	Log total assets
$\Sigma\Delta MP$ domestic_t to t-3	0.070*** [0.007]	0.291** [0.022]	0.039 [0.395]		0.051 [0.849]
$\Sigma\Delta MP$ domestic_t to t-3*channel_t-4		-0.004* [0.090]	0.015 [0.306]		0.002 [0.889]
Total effect of $\Sigma\Delta MP$ terms for median bank		0.153*** [0.002]	0.061** [0.041]		0.081 [0.131]
Log total assets_t-1	0.003 [0.880]	0.000 [0.988]	0.005 [0.788]		
Tier 1 ratio_t-1	0.004 [0.434]	0.006 [0.279]	0.005 [0.308]		0.006 [0.241]
Liquid asset ratio_t-1	0.011** [0.041]	0.007 [0.148]			0.007 [0.160]
Net IG funding ratio_t-1					
Core deposits ratio_t-1	0.000 [0.920]	0.001 [0.518]	0.001 [0.691]		0.001 [0.508]
Channel_t-4		-0.000 [0.938]	0.010*** [0.003]		-0.002 [0.927]
Business cycle domestic_t-1	-0.018* [0.067]	-0.020** [0.045]	-0.020** [0.047]		-0.019** [0.049]
Business cycle_j,t-1	0.004 [0.142]	0.006* [0.086]	0.005* [0.099]		0.004 [0.158]
Financial cycle domestic_t-1	0.001** [0.013]	0.001* [0.060]	0.002** [0.019]		0.001** [0.044]
Financial cycle_j,t-1	0.000 [0.452]	0.000 [0.234]	0.000 [0.173]		0.000 [0.172]
$\Delta MP_j,t-1$	-0.006 [0.148]	-0.007 [0.100]	-0.005 [0.166]		-0.007 [0.115]
VIX_t-1	-0.001** [0.026]	-0.000 [0.165]	-0.000** [0.018]		-0.000* [0.058]
Observations	1,654	1,578	1,578		1,578
R-squared	0.056	0.070	0.068		0.075
Adjusted R-squared	0.027	0.037	0.036		0.042
Number of banks	13	13	13		13
Number of countries	25	25	25		25
Monetary policy choice	Δ Short rate	Δ Short rate	Δ Short rate		Δ Short rate
Monetary policy counterparty country	Δ Short rate	Δ Short rate	Δ Short rate		Δ Short rate
Channel studied	Bank lending	Bank lending	Bank lending		Bank lending

Panel C: United States

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Short term (wholesale) funding ratio	Liquid asset ratio	Net intragroup funding to the affiliate in j / total assets	Log total assets
$\Sigma\Delta\text{MP domestic}_t$ to t-3	0.061*** [0.000]	0.035 [0.248]	0.061*** [0.001]	0.062*** [0.000]	-0.205 [0.233]
$\Sigma\Delta\text{MP domestic}_t$ to t-3*channel_t-4		0.001 [0.289]	-0.000 [0.906]	-0.004 [0.890]	0.010 [0.121]
Total effect of $\Sigma\Delta\text{MP}$ terms for median bank		0.047** [0.018]	0.060*** [0.000]	0.062*** [0.000]	0.051*** [0.000]
Log total assets_t-1	0.017 [0.425]	0.015 [0.480]	0.014 [0.528]	0.016 [0.461]	
Tier 1 ratio_t-1	-0.002 [0.647]	-0.002 [0.543]	-0.001 [0.657]	-0.002 [0.648]	-0.002 [0.605]
Liquid asset ratio_t-1	-0.002 [0.185]	-0.002 [0.182]		-0.002 [0.207]	-0.002 [0.168]
Net IG funding ratio_t-1	-0.033*** [0.000]	-0.033*** [0.000]	-0.032*** [0.000]		-0.033*** [0.000]
Core deposits ratio_t-1	-0.001 [0.263]	-0.001 [0.220]	-0.001 [0.308]	-0.001 [0.284]	-0.001 [0.248]
Channel_t-4		-0.000 [0.916]	-0.001 [0.130]	-0.025*** [0.000]	0.018 [0.350]
Business cycle domestic_t-1	-0.008** [0.041]	-0.008** [0.040]	-0.007* [0.080]	-0.008** [0.047]	-0.008** [0.040]
Business cycle_j,t-1	0.006*** [0.000]	0.006*** [0.000]	0.006*** [0.000]	0.006*** [0.000]	0.006*** [0.000]
Financial cycle domestic_t-1	0.001 [0.456]	0.000 [0.541]	0.001 [0.333]	0.001 [0.423]	0.001 [0.399]
Financial cycle_j,t-1	0.000 [0.782]	0.000 [0.829]	0.000 [0.788]	0.000 [0.797]	0.000 [0.797]
$\Delta\text{MP}_j,t-1$	-0.002*** [0.001]	-0.002*** [0.001]	-0.002*** [0.002]	-0.002*** [0.001]	-0.002*** [0.001]
VIX_t-1	-0.001 [0.172]	-0.001 [0.148]	-0.001 [0.146]	-0.001 [0.190]	-0.001 [0.194]
Observations	9,776	9,776	9,765	9,768	9,776
R-squared	0.019	0.019	0.019	0.019	0.019
Adjusted R-squared	0.010	0.010	0.010	0.009	0.010
Number of banks	36	36	36	36	36
Number of countries	42	42	42	42	42
Monetary policy choice	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$
Monetary policy counterparty country	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$
Channel studied	Bank lending	Bank lending	Bank lending	Bank lending	Bank lending

Table OA2: Bank Lending Cross Border Claims - Non-bank Private

The dependent variable is log changes in cross-border claims to foreign residents in the non-bank private sector. The first column contains results from the model without any channel interaction terms; The rest of the columns contain results from interactions with the bank lending channels. The data are quarterly from 2000Q1 to 2015Q4 for a panel of domestically-owned banks with foreign exposures. All specifications include bank and counterparty country fixed effects. Standard errors are clustered by bank. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

Panel A: Netherlands

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Short term (wholesale) funding ratio	Liquid asset ratio	Net intragroup funding to the affiliate in j / total assets	Log total assets
$\Sigma\Delta MP_{domestic_t \text{ to } t-3}$	0.023 [0.325]	0.009 [0.446]	-0.018 [0.621]		-0.216** [0.014]
$\Sigma\Delta MP_{domestic_t \text{ to } t-3} * channel_t-4$		0.000 [0.856]	0.001 [0.274]		0.022*** [0.004]
Total effect of $\Sigma\Delta MP$ terms for median bank		0.020 [0.703]	0.019 [0.415]		-0.021 [0.478]
Log total assets _{t-1}	-0.029 [0.152]	-0.016 [0.421]	-0.024 [0.249]		
Tier 1 ratio _{t-1}	-0.002 [0.655]	-0.002 [0.526]	-0.001 [0.699]		-0.002 [0.605]
Liquid asset ratio _{t-1}	-0.000 [0.674]	-0.000 [0.610]			-0.000 [0.361]
Net IG funding ratio _{t-1}					
Core deposits ratio _{t-1}	0.000 [0.755]	0.001 [0.423]	0.000 [0.476]		0.001 [0.387]
Channel _{t-4}		0.001 [0.454]	-0.000 [0.672]		-0.005 [0.754]
Business cycle domestic _{t-1}	0.000 [0.980]	-0.001 [0.801]	-0.002 [0.662]		-0.001 [0.845]
Business cycle _{j,t-1}	0.001 [0.571]	0.002 [0.408]	0.002 [0.348]		0.002 [0.380]
Financial cycle domestic _{t-1}	0.001 [0.383]	0.001 [0.328]	0.001* [0.097]		0.001 [0.231]
Financial cycle _{j,t-1}	0.000 [0.327]	0.000 [0.300]	0.000 [0.636]		0.000 [0.303]
$\Delta MP_{j,t-1}$	-0.000 [0.910]	-0.000 [0.888]	0.000 [0.979]		-0.000 [0.931]
VIX _{t-1}	-0.000 [0.471]	-0.000 [0.446]	-0.001 [0.325]		-0.001 [0.355]
Observations	9,227	9,133	8,724		9,133
R-squared	0.016	0.016	0.017		0.017
Adjusted R-squared	0.008	0.007	0.008		0.009
Number of banks	27	27	27		27
Number of countries	37	37	37		37
Monetary policy choice	Δ Short rate	Δ Short rate	Δ Short rate		Δ Short rate
Monetary policy counterparty country	Δ Short rate	Δ Short rate	Δ Short rate		Δ Short rate
Channel studied	Bank lending	Bank lending	Bank lending		Bank lending

Panel B: Spain

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Short term (wholesale) funding ratio	Liquid asset ratio	Net intragroup funding to the affiliate in j / total assets	Log total assets
$\Sigma\Delta\text{MP domestic}_t$ to t-3	0.061*** [0.007]	0.025 [0.684]	-0.023 [0.578]		-0.411*** [0.000]
$\Sigma\Delta\text{MP domestic}_t$ to t-3*channel_t-4		0.001 [0.668]	0.035*** [0.000]		0.033*** [0.000]
Total effect of $\Sigma\Delta\text{MP}$ terms for median bank		0.047* [0.072]	0.027 [0.368]		-0.009 [0.732]
Log total assets_t-1	-0.023* [0.098]	-0.022 [0.234]	-0.020 [0.351]		
Tier 1 ratio_t-1	0.000 [0.955]	0.002 [0.674]	0.003 [0.540]		0.002 [0.591]
Liquid asset ratio_t-1	0.006*** [0.004]	0.005** [0.027]			0.006*** [0.003]
Net IG funding ratio_t-1					
Core deposits ratio_t-1	-0.001 [0.372]	-0.001 [0.156]	-0.001 [0.157]		-0.001 [0.214]
Channel_t-4		-0.001 [0.328]	0.007** [0.040]		-0.022 [0.288]
Business cycle domestic_t-1	0.003 [0.294]	-0.000 [0.921]	0.000 [0.983]		-0.000 [0.952]
Business cycle_j,t-1	-0.002 [0.532]	-0.001 [0.737]	-0.000 [0.843]		-0.001 [0.711]
Financial cycle domestic_t-1	0.000 [0.171]	0.001 [0.265]	0.001 [0.271]		0.000 [0.377]
Financial cycle_j,t-1	0.001** [0.020]	0.001** [0.013]	0.001*** [0.006]		0.001*** [0.006]
$\Delta\text{MP}_j,t-1$	0.007** [0.032]	0.009** [0.044]	0.009** [0.049]		0.008* [0.067]
VIX_t-1	-0.001 [0.165]	-0.001 [0.204]	-0.001 [0.212]		-0.001 [0.183]
Observations	4,199	3,772	3,772		3,772
R-squared	0.026	0.030	0.031		0.032
Adjusted R-squared	0.011	0.011	0.013		0.014
Number of banks	29	29	29		29
Number of countries	26	26	26		26
Monetary policy choice	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$		$\Delta\text{Short rate}$
Monetary policy counterparty country	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$	$\Delta\text{Short rate}$		$\Delta\text{Short rate}$
Channel studied	Bank lending	Bank lending	Bank lending		Bank lending

Panel C: United States

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Short term (wholesale) funding ratio	Liquid asset ratio	Net intragroup funding to the affiliate in j / total assets	Log total assets
Σ AMP domestic_t to t-3	0.032*** [0.001]	0.000 [0.999]	0.015 [0.186]	0.032*** [0.001]	-0.194 [0.116]
Σ AMP domestic_t to t-3*channel_t-4		0.002** [0.019]	0.001*** [0.008]	0.045 [0.174]	0.009* [0.069]
Total effect of Σ AMP terms for median bank		0.021** [0.023]	0.036*** [0.000]	0.032*** [0.001]	0.032*** [0.000]
Log total assets_t-1	-0.021 [0.109]	-0.017 [0.208]	-0.022* [0.083]	-0.021 [0.105]	
Tier 1 ratio_t-1	0.002 [0.545]	0.002 [0.387]	0.002 [0.582]	0.002 [0.528]	0.002 [0.514]
Liquid asset ratio_t-1	-0.001 [0.123]	-0.001** [0.043]		-0.001* [0.071]	-0.001** [0.039]
Net IG funding ratio_t-1	-0.010 [0.189]	-0.010 [0.197]	-0.011 [0.176]		-0.011 [0.169]
Core deposits ratio_t-1	-0.001* [0.062]	-0.000 [0.495]	-0.001* [0.091]	-0.001* [0.055]	-0.001** [0.046]
Channel_t-4		0.002*** [0.000]	-0.000 [0.663]	-0.004 [0.604]	-0.013 [0.298]
Business cycle domestic_t-1	-0.000 [0.983]	0.001 [0.816]	-0.000 [0.969]	-0.000 [0.904]	-0.000 [0.932]
Business cycle_j,t-1	-0.000 [0.693]	-0.001 [0.661]	-0.000 [0.807]	-0.000 [0.847]	-0.000 [0.767]
Financial cycle domestic_t-1	-0.000 [0.384]	-0.001 [0.250]	-0.000 [0.453]	-0.000 [0.401]	-0.000 [0.484]
Financial cycle_j,t-1	-0.000 [0.806]	-0.000 [0.812]	-0.000 [0.817]	-0.000 [0.848]	-0.000 [0.773]
Δ MP_j,t-1	0.000 [0.694]	0.000 [0.681]	0.000 [0.723]	0.000 [0.734]	0.000 [0.706]
VIX_t-1	0.000 [0.572]	0.000 [0.478]	0.000 [0.455]	0.000 [0.647]	0.000 [0.614]
Observations	23,825	23,825	23,776	23,582	23,825
R-squared	0.009	0.010	0.009	0.009	0.009
Adjusted R-squared	0.004	0.005	0.004	0.004	0.004
Number of banks	57	57	57	57	57
Number of countries	48	48	48	48	48
Monetary policy choice	Δ Short rate	Δ Short rate	Δ Short rate	Δ Short rate	Δ Short rate
Monetary policy counterparty country	Δ Short rate	Δ Short rate	Δ Short rate	Δ Short rate	Δ Short rate
Channel studied	Bank lending	Bank lending	Bank lending	Bank lending	Bank lending

Table OA3: Portfolio Local Claims - Non-bank Private

The dependent variable is log changes in total claims to foreign residents in the non-bank private sector. The first column contains results from the model without any channel interaction terms; The rest of the columns contain results from interactions with the portfolio channels. The data are quarterly from 2000Q1 to 2015Q4 for a panel of domestically-owned banks with foreign exposures. All specifications include bank and counterparty country fixed effects. Standard errors are clustered by bank.

***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

Panel A: Netherlands

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Tier 1 ratio	C&I loans / total assets	Securities / total assets	Total claims on foreign borrowers / total assets
$\Sigma\Delta MP$ domestic_t to t-3	0.030 [0.132]	0.061 [0.190]	-0.002 [0.725]	-0.025 [0.688]	0.025 [0.764]
$\Sigma\Delta MP$ domestic_t to t-3*channel_t-4		0.001 [0.846]	0.000 [0.947]	-0.002 [0.708]	0.000 [0.617]
Total effect of $\Sigma\Delta MP$ terms for median bank		0.026 [0.221]	-0.021 [0.665]	-0.050 [0.366]	0.036 [0.333]
Log total assets_t-1	0.021 [0.612]	0.025 [0.503]	-0.066 [0.335]	-0.079 [0.590]	0.021 [0.588]
Tier 1 ratio_t-1	0.000 [0.983]		0.005 [0.228]	0.006 [0.771]	0.000 [0.990]
Liquid asset ratio_t-1	0.000 [0.844]	0.000 [0.906]	0.001 [0.790]	0.001 [0.744]	0.000 [0.774]
Net IG funding ratio_t-1					
Core deposits ratio_t-1	0.001 [0.329]	0.000 [0.774]	0.002 [0.331]	0.005 [0.281]	0.001 [0.314]
Channel_t-4		0.001 [0.883]	0.000 [0.907]	-0.001 [0.780]	0.001* [0.091]
Business cycle domestic_t-1	-0.005 [0.312]	-0.005 [0.340]	-0.006 [0.377]	-0.005 [0.594]	-0.007 [0.238]
Business cycle_j,t-1	-0.004 [0.455]	-0.004 [0.424]	-0.005 [0.304]	-0.005 [0.383]	-0.004 [0.455]
Financial cycle domestic_t-1	0.002* [0.056]	0.002 [0.129]	0.002* [0.088]	0.004* [0.081]	0.002* [0.074]
Financial cycle_j,t-1	0.000 [0.576]	0.000 [0.693]	0.000 [0.996]	0.000 [0.740]	0.000 [0.575]
$\Delta MP_j,t-1$	0.007 [0.287]	0.008 [0.242]	0.011 [0.139]	0.013 [0.163]	0.006 [0.386]
VIX_t-1	0.000 [0.661]	-0.001 [0.454]	0.000 [0.974]	-0.001 [0.588]	0.000 [0.981]
Observations	2,609	2,596	1,641	1,252	2,609
R-squared	0.022	0.025	0.030	0.033	0.026
Adjusted R-squared	0.005	0.006	-0.001	-0.007	0.007
Number of banks	7	7	7	7	7
Number of countries	26	26	26	26	26
Monetary policy choice	ΔSSR				
Monetary policy counterparty country	ΔSSR if available				
Channel studied	Portfolio	Portfolio	Portfolio	Portfolio	Portfolio

Panel B: Spain

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Tier 1 ratio	C&I loans / total assets	Securities / total assets	Total claims on foreign borrowers / total assets
$\Sigma\Delta MP$ domestic_t to t-3	0.012 [0.607]	0.008 [0.864]	0.027 [0.677]	-0.038 [0.500]	0.064 [0.128]
$\Sigma\Delta MP$ domestic_t to t-3*channel_t-4		0.002 [0.860]	0.000 [0.990]	0.004 [0.245]	-0.001 [0.259]
Total effect of $\Sigma\Delta MP$ terms for median bank		0.017 [0.253]	0.026 [0.263]	0.015 [0.362]	0.063 [0.125]
Log total assets_t-1	-0.001 [0.965]	-0.010 [0.473]	-0.027 [0.386]	-0.003 [0.897]	0.016 [0.476]
Tier 1 ratio_t-1	0.004 [0.378]		0.000 [0.921]	0.007 [0.266]	0.008* [0.087]
Liquid asset ratio_t-1	0.011** [0.025]	0.009** [0.043]	0.007 [0.167]	0.009* [0.078]	0.010** [0.011]
Net IG funding ratio_t-1					
Core deposits ratio_t-1	0.000 [0.905]	0.001 [0.700]	0.000 [0.928]	0.000 [0.834]	0.001 [0.700]
Channel_t-4		-0.001 [0.882]	0.001 [0.338]	0.001 [0.515]	-0.002* [0.057]
Business cycle domestic_t-1	-0.013* [0.088]	-0.013 [0.110]	-0.015 [0.109]	-0.012 [0.187]	-0.013 [0.149]
Business cycle_j,t-1	0.006** [0.029]	0.007** [0.014]	0.007** [0.023]	0.007** [0.011]	0.007*** [0.006]
Financial cycle domestic_t-1	0.001*** [0.006]	0.001** [0.028]	0.001* [0.053]	0.001** [0.022]	0.001** [0.015]
Financial cycle_j,t-1	0.000 [0.761]	0.000 [0.297]	0.000 [0.486]	0.000* [0.082]	0.000 [0.270]
$\Delta MP_j,t-1$	0.001 [0.801]	0.001 [0.835]	0.002 [0.760]	0.002 [0.715]	0.000 [0.959]
VIX_t-1	0.001*** [0.006]	0.001** [0.028]	0.001* [0.053]	0.001** [0.022]	0.001** [0.015]
Observations	1,654	1,578	1,578	1,578	1,578
R-squared	0.054	0.067	0.069	0.065	0.068
Adjusted R-squared	0.024	0.033	0.035	0.031	0.034
Number of banks	20	20	20	20	20
Number of countries	36	36	36	36	36
Monetary policy choice	ΔSSR				
Monetary policy counterparty country	ΔSSR if available				
Channel studied	Portfolio	Portfolio	Portfolio	Portfolio	Portfolio

Panel C: United States

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Tier 1 ratio	C&I loans / total assets	Securities / total assets	Total claims on foreign borrowers / total assets
$\Sigma\Delta MP$ domestic_t to t-3	0.020* [0.085]	0.083*** [0.001]	0.027 [0.110]	0.037** [0.021]	0.015 [0.350]
$\Sigma\Delta MP$ domestic_t to t-3*channel_t-4		-0.008*** [0.003]	-0.001 [0.251]	-0.001 [0.212]	0.000 [0.686]
Total effect of $\Sigma\Delta MP$ terms for median bank		-0.012 [0.405]	0.018 [0.135]	0.018 [0.146]	0.015 [0.348]
Log total assets_t-1	0.021 [0.325]	0.024 [0.227]	0.004 [0.852]	0.022 [0.300]	0.024 [0.195]
Tier 1 ratio_t-1	-0.002 [0.609]		-0.003 [0.311]	-0.002 [0.436]	-0.002 [0.590]
Liquid asset ratio_t-1	-0.002 [0.219]	-0.002 [0.201]	-0.002 [0.153]	-0.001 [0.299]	-0.002 [0.248]
Net IG funding ratio_t-1	-0.034*** [0.000]	-0.033*** [0.000]	-0.034*** [0.000]	-0.033*** [0.000]	-0.034*** [0.000]
Core deposits ratio_t-1	-0.002 [0.148]	-0.001 [0.139]	-0.001 [0.343]	-0.001 [0.150]	-0.002 [0.135]
Channel_t-4		0.002 [0.539]	-0.005*** [0.001]	0.000 [0.757]	-0.001 [0.671]
Business cycle domestic_t-1	-0.006 [0.129]	-0.005 [0.191]	-0.006 [0.143]	-0.006 [0.136]	-0.006 [0.161]
Business cycle_j,t-1	0.005*** [0.005]	0.005*** [0.001]	0.005*** [0.005]	0.005*** [0.004]	0.005*** [0.004]
Financial cycle domestic_t-1	0.000 [0.535]	0.001 [0.258]	0.001 [0.268]	0.001 [0.408]	0.000 [0.682]
Financial cycle_j,t-1	0.000 [0.504]	0.000 [0.678]	0.000 [0.568]	0.000 [0.548]	0.000 [0.475]
$\Delta MP_j,t-1$	-0.002*** [0.006]	-0.002*** [0.005]	-0.002*** [0.005]	-0.002*** [0.005]	-0.002*** [0.005]
VIX_t-1	-0.002** [0.043]	-0.001 [0.104]	-0.002* [0.058]	-0.002** [0.045]	-0.002* [0.050]
Observations	9,815	9,815	9,815	9,799	9,815
R-squared	0.018	0.020	0.019	0.019	0.019
Adjusted R-squared	0.009	0.010	0.010	0.009	0.009
Number of banks	36	36	36	36	36
Number of countries	42	42	42	42	42
Monetary policy choice	ΔSSR				
Monetary policy counterparty country	ΔSSR if available				
Channel studied	Portfolio	Portfolio	Portfolio	Portfolio	Portfolio

Table OA4: Portfolio Cross Border Claims - Non-bank Private

The dependent variable is log changes in total claims to foreign residents in the non-bank private sector. The first column contains results from the model without any channel interaction terms; The rest of the columns contain results from interactions with the portfolio channels. The data are quarterly from 2000Q1 to 2015Q4 for a panel of domestically-owned banks with foreign exposures. All specifications include bank and counterparty country fixed effects. Standard errors are clustered by bank.

***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

Panel A: Netherlands

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Tier 1 ratio	C&I loans / total assets	Securities / total assets	Total claims on foreign borrowers / total assets
$\Sigma\Delta MP$ domestic_t to t-3	-0.006 [0.702]	0.024 [0.212]	-0.019 [0.770]	-0.016 [0.503]	-0.010 [0.204]
$\Sigma\Delta MP$ domestic_t to t-3*channel_t-4		-0.005** [0.034]	0.001 [0.559]	-0.001 [0.232]	-0.001 [0.639]
Total effect of $\Sigma\Delta MP$ terms for median bank		0.000 [0.999]	0.015 [0.702]	-0.025 [0.471]	-0.046* [0.080]
Log total assets_t-1	-0.022 [0.276]	-0.008 [0.694]	-0.016 [0.526]	-0.013 [0.669]	-0.022 [0.268]
Tier 1 ratio_t-1	-0.001 [0.832]		0.000 [0.979]	0.001 [0.889]	-0.001 [0.766]
Liquid asset ratio_t-1	-0.000 [0.629]	-0.000 [0.552]	-0.001 [0.309]	-0.001 [0.345]	-0.000 [0.537]
Net IG funding ratio_t-1					
Core deposits ratio_t-1	0.000 [0.588]	0.000 [0.494]	0.001 [0.412]	0.001 [0.373]	0.000 [0.706]
Channel_t-4		-0.002 [0.254]	0.000 [0.573]	-0.001* [0.098]	0.000 [0.377]
Business cycle domestic_t-1	0.001 [0.674]	0.000 [0.895]	-0.001 [0.832]	-0.000 [0.924]	0.002 [0.571]
Business cycle_j,t-1	-0.000 [0.908]	0.000 [0.892]	-0.001 [0.659]	-0.001 [0.578]	-0.000 [0.858]
Financial cycle domestic_t-1	0.001 [0.102]	0.001 [0.136]	0.001 [0.177]	0.001* [0.081]	0.001* [0.087]
Financial cycle_j,t-1	0.000 [0.270]	0.000 [0.250]	0.000 [0.305]	0.001 [0.248]	0.000 [0.272]
ΔMP _j,t-1	0.000 [0.939]	0.000 [0.936]	0.001 [0.849]	-0.000 [0.902]	0.000 [0.893]
VIX_t-1	-0.002*** [0.002]	-0.002*** [0.004]	-0.002*** [0.006]	-0.002*** [0.003]	-0.002*** [0.002]
Observations	9,227	9,133	5,862	5,617	9,227
R-squared	0.016	0.018	0.017	0.018	0.018
Adjusted R-squared	0.008	0.009	0.004	0.005	0.009
Number of banks	27	27	23	21	27
Number of countries	37	37	37	37	37
Monetary policy choice	ΔSSR				
Monetary policy counterparty country	ΔSSR if available				
Channel studied	Portfolio	Portfolio	Portfolio	Portfolio	Portfolio

Panel B: Spain

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Tier 1 ratio	C&I loans / total assets	Securities / total assets	Total claims on foreign borrowers / total assets
$\Sigma\Delta MP$ domestic_t to t-3	0.025* [0.089]	0.028 [0.370]	0.069 [0.507]	-0.013 [0.767]	-0.031* [0.075]
$\Sigma\Delta MP$ domestic_t to t-3*channel_t-4		-0.001 [0.766]	-0.001 [0.619]	0.002 [0.320]	0.002*** [0.000]
Total effect of $\Sigma\Delta MP$ terms for median bank		0.021 [0.267]	0.013 [0.526]	0.015 [0.429]	-0.028* [0.099]
Log total assets_t-1	-0.024* [0.080]	-0.024 [0.159]	-0.022 [0.246]	-0.017 [0.414]	-0.028* [0.063]
Tier 1 ratio_t-1	0.000 [0.953]		0.002 [0.586]	0.004 [0.311]	0.001 [0.764]
Liquid asset ratio_t-1	0.007*** [0.002]	0.006*** [0.001]	0.007*** [0.000]	0.008*** [0.000]	0.007*** [0.000]
Net IG funding ratio_t-1					
Core deposits ratio_t-1	-0.001 [0.186]	-0.001* [0.090]	-0.001 [0.150]	-0.001 [0.260]	-0.001* [0.068]
Channel_t-4		0.002 [0.489]	-0.000 [0.729]	0.001* [0.070]	0.001 [0.490]
Business cycle domestic_t-1	0.006* [0.075]	0.002 [0.540]	0.003 [0.557]	0.003 [0.539]	0.002 [0.625]
Business cycle_j,t-1	-0.000 [0.833]	0.000 [0.932]	0.000 [0.852]	0.000 [0.876]	0.000 [0.850]
Financial cycle domestic_t-1	0.000 [0.167]	0.000 [0.235]	0.001 [0.182]	0.001 [0.208]	0.000 [0.312]
Financial cycle_j,t-1	0.001** [0.029]	0.001** [0.021]	0.001** [0.027]	0.001** [0.015]	0.001** [0.012]
ΔMP _j,t-1	0.006** [0.018]	0.008** [0.026]	0.008** [0.017]	0.007** [0.020]	0.008** [0.018]
VIX_t-1	0.000 [0.167]	0.000 [0.235]	0.001 [0.182]	0.001 [0.208]	0.001 [0.312]
Observations	4,199	3,772	3,772	3,772	3,772
R-squared	0.026	0.029	0.029	0.030	0.032
Adjusted R-squared	0.010	0.010	0.010	0.011	0.013
Number of banks	29	29	29	29	29
Number of countries	26	26	26	26	26
Monetary policy choice	ΔSSR				
Monetary policy counterparty country	ΔSSR if available				
Channel studied	Portfolio	Portfolio	Portfolio	Portfolio	Portfolio

Panel C: United States

	(1)	(2)	(3)	(4)	(5)
Channel:	None	Tier 1 ratio	C&I loans / total assets	Securities / total assets	Total claims on foreign borrowers / total assets
$\Sigma\Delta MP$ domestic_t to t-3	0.004 [0.506]	0.045** [0.031]	0.001 [0.858]	0.006 [0.578]	0.000 [0.977]
$\Sigma\Delta MP$ domestic_t to t-3*channel_t-4		-0.005* [0.058]	-0.000 [0.935]	-0.000 [0.737]	0.000 [0.656]
Total effect of $\Sigma\Delta MP$ terms for median bank		-0.016 [0.217]	0.001 [0.866]	0.003 [0.561]	0.000 [0.976]
Log total assets_t-1	-0.020 [0.133]	-0.020 [0.157]	-0.026** [0.038]	-0.022* [0.090]	-0.017 [0.210]
Tier 1 ratio_t-1	0.001 [0.666]		0.001 [0.619]	0.001 [0.588]	0.001 [0.640]
Liquid asset ratio_t-1	-0.000 [0.258]	-0.000 [0.281]	-0.001 [0.198]	-0.000 [0.474]	-0.000 [0.439]
Net IG funding ratio_t-1	-0.011 [0.164]	-0.011 [0.162]	-0.011 [0.162]	-0.011 [0.146]	-0.010 [0.186]
Core deposits ratio_t-1	-0.001** [0.041]	-0.001 [0.109]	-0.001* [0.098]	-0.001** [0.029]	-0.001** [0.028]
Channel_t-4		-0.001 [0.728]	-0.002** [0.043]	0.001** [0.026]	-0.001** [0.012]
Business cycle domestic_t-1	0.002 [0.543]	0.002 [0.632]	0.002 [0.664]	0.002 [0.504]	0.003 [0.402]
Business cycle_j,t-1	-0.001 [0.282]	-0.001 [0.398]	-0.001 [0.271]	-0.001 [0.303]	-0.001 [0.276]
Financial cycle domestic_t-1	-0.001 [0.245]	-0.001 [0.261]	-0.000 [0.368]	-0.001 [0.348]	-0.001 [0.106]
Financial cycle_j,t-1	-0.000 [0.856]	-0.000 [0.818]	-0.000 [0.749]	-0.000 [0.820]	-0.000 [0.857]
$\Delta MP_j,t-1$	0.000 [0.490]	0.000 [0.525]	0.000 [0.481]	0.000 [0.500]	0.000 [0.496]
VIX_t-1	-0.000 [0.456]	-0.000 [0.619]	-0.000 [0.403]	-0.000 [0.519]	-0.000 [0.471]
Observations	23,951	23,951	23,948	23,875	23,951
R-squared	0.009	0.010	0.010	0.009	0.010
Adjusted R-squared	0.004	0.004	0.005	0.004	0.005
Number of banks	57	57	57	57	57
Number of countries	48	48	48	48	48
Monetary policy choice	ΔSSR				
Monetary policy counterparty country	ΔSSR if available				
Channel studied	Portfolio	Portfolio	Portfolio	Portfolio	Portfolio

Table OA5: Interactions with Decentralized Dummy - Non-bank Private

The dependent variables are claims to the non-bank private sector. Each model contains interaction terms with a decentralization dummy, which is equal to one if more than 50 percent of the bank's claims are local within each quarter. The data are quarterly from 2000Q1 to 2015Q4 for a panel of domestically-owned banks with foreign exposures. All specifications include bank and counterparty country fixed effects. Standard errors are clustered by bank. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

Panel A: Netherlands

	(1)	(2)	(3)	(4)	(5)
	Dependent variable: $\Delta \log(\text{total claims})$				
	$\Delta \log(\text{total claims})$	$\Delta \log(\text{local claims})$	$\Delta \log(\text{cross-border claims})$	$\Delta \text{ratio of total claims to assets}$	$\Delta \text{ratio of cross-border claims to assets}$
$\Sigma \Delta \text{MP domestic}_t$ to t-3	-0.001 [0.966]	0.117 [0.410]	-0.013 [0.635]	0.000 [0.964]	0.000 [0.723]
$\Sigma \Delta \text{MP domestic}_t$ to t-3*Decentral_t-4	0.079 [0.205]	0.331* [0.063]	0.111 [0.114]	0.000 [0.362]	0.000 [0.658]
Total effect of $\Sigma \Delta \text{MP}$ terms for median bank	0.078 [0.189]	0.448 [0.187]	0.098* [0.090]	0.000 [0.595]	0.000 [0.498]
Log total assets_t-1	-0.024 [0.202]	-0.012 [0.737]	-0.027 [0.189]	0.000 [0.183]	0.000 [0.249]
Tier 1 ratio_t-1	-0.001 [0.792]	-0.002 [0.517]	-0.001 [0.709]	0.000 [0.923]	-0.000 [0.867]
Liquid asset ratio_t-1	-0.000 [0.328]	0.000 [0.975]	-0.000 [0.418]	-0.000 [0.505]	-0.000 [0.232]
Net IG funding ratio_t-1					
Core deposits ratio_t-1	0.000 [0.671]	0.002 [0.205]	0.000 [0.669]	0.000 [0.386]	0.000 [0.202]
Channel_t-4	0.012 [0.464]	0.023 [0.468]	0.005 [0.788]	-0.000 [0.366]	-0.000 [0.498]
Business cycle domestic_t-1	-0.001 [0.761]	-0.011** [0.026]	0.001 [0.873]	-0.000** [0.024]	-0.000 [0.359]
Business cycle_j,t-1	0.001 [0.711]	-0.003 [0.495]	0.001 [0.643]	0.000 [0.498]	0.000 [0.749]
Financial cycle domestic_t-1	0.001 [0.204]	0.002 [0.149]	0.001 [0.249]	0.000 [0.874]	0.000 [0.410]
Financial cycle_j,t-1	0.000 [0.413]	-0.000 [0.423]	0.000 [0.373]	0.000 [0.838]	0.000 [0.206]
$\Delta \text{MP}_j,t-1$	-0.001 [0.637]	0.003 [0.673]	-0.001 [0.739]	0.000 [0.941]	-0.000 [0.590]
VIX_t-1	-0.000 [0.782]	0.001 [0.326]	-0.000 [0.439]	-0.000 [0.452]	-0.000 [0.349]
Observations	9,823	2,609	9,178	12,800	12,071
R-squared	0.018	0.027	0.017	0.012	0.013
Adjusted R-squared	0.010	0.008	0.008	0.006	0.006
Number of banks	27	7	27	33	32
Number of countries	37	26	37	37	37
Monetary policy choice	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	ΔSSR	ΔSSR
Monetary policy counterparty country	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	$\Delta \text{SSR if available}$	$\Delta \text{SSR if available}$

Panel B: Spain

	(1)	(2)	(3)	(4)	(5)
	Dependent variable: $\Delta \log(\text{total claims})$ $\Delta \log(\text{local claims})$ $\Delta \log(\text{cross-border claims})$ $\Delta \text{ratio of total claims to assets}$ $\Delta \text{ratio of cross-border claims to assets}$				
$\Sigma \Delta \text{MP domestic}_t \text{ to } t-3$	0.033 (0.294)	0.075 (0.109)	0.003 (0.903)	-0.004 (0.749)	0.002 (0.804)
$\Sigma \Delta \text{MP domestic}_t \text{ to } t-3 * \text{Decentral}_t-4$	0.053*** [0.007]	0.013 [0.794]	0.107*** [0.000]	0.009 [0.418]	0.000 [0.936]
Total effect of $\Sigma \Delta \text{MP}$ terms for median bank	0.086* [0.000]	0.088*** [0.000]	0.110*** [0.000]	0.005 [0.705]	0.002 [0.701]
Log total assets _{t-1}	-0.017 [0.315]	-0.002 [0.909]	-0.027 [0.170]	-0.024 [0.198]	-0.013 [0.163]
Tier 1 ratio _{t-1}	0.003 [0.357]	0.006 [0.328]	0.002 [0.596]	0.004 [0.239]	0.003 [0.400]
Liquid asset ratio _{t-1}	0.006*** [0.005]	0.008* [0.086]	0.007*** [0.001]	0.000 [0.851]	0.001 [0.618]
Net IG funding ratio _{t-1}					
Core deposits ratio _{t-1}	0.001 [0.510]	0.001 [0.622]	-0.001 [0.141]	0.000 [0.958]	0.001 [0.247]
Channel _{t-4}	0.039*** [0.000]	0.008 [0.783]	0.053*** [0.000]	0.027 [0.166]	0.023*** [0.003]
Business cycle domestic _{t-1}	-0.007 [0.123]	-0.019** [0.043]	0.000 [0.994]	-0.007 [0.312]	0.000 [0.850]
Business cycle _{j,t-1}	0.0015 [0.367]	0.0045 [0.154]	-0.001 [0.719]	0.001 [0.789]	0.000 [0.890]
Financial cycle domestic _{t-1}	0.001*** [0.007]	0.001** [0.038]	0.001 [0.317]	0.000 [0.219]	0.000 [0.669]
Financial cycle _{j,t-1}	0.001** [0.012]	0.000 [0.174]	0.001*** [0.002]	0.000 [0.361]	0.000 [0.396]
$\Delta \text{MP}_j,t-1$	0.002 [0.641]	-0.006 [0.136]	0.009* [0.051]	0.005 [0.280]	0.005** [0.031]
VIX _{t-1}	-0.001 [0.101]	-0.001** [0.029]	-0.001 [0.145]	-0.000 [0.547]	0.000 [0.537]
Observations	3,830	1,580	3,795	3,986	3,986
R-squared	0.042	0.071	0.033	0.005	0.007
Adjusted R-squared	0.024	0.037	0.015	-0.014	-0.012
Number of banks	29	13	29	29	29
Number of countries	26	25	26	26	26
Monetary policy choice	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	ΔSSR	ΔSSR
Monetary policy counterparty country	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	$\Delta \text{SSR if available}$	$\Delta \text{SSR if available}$

Panel C: United States

	(1)	(2)	(3)	(4)	(5)
Dependent variable:	$\Delta \log(\text{total claims})$	$\Delta \log(\text{local claims})$	$\Delta \log(\text{cross-border claims})$	$\Delta \text{ratio of total claims to assets}$	$\Delta \text{ratio of cross-border claims to assets}$
$\Sigma \Delta \text{MP domestic}_t \text{ to } t-3$	0.033*** [0.001]	0.061*** [0.000]	0.029*** [0.006]	0.002 [0.477]	-0.001 [0.694]
$\Sigma \Delta \text{MP domestic}_t \text{ to } t-3 * \text{Decentral}_{t-4}$	0.008 [0.652]	-0.001 [0.895]	0.018 [0.368]	-0.005 [0.326]	0.000 [0.949]
Total effect of $\Sigma \Delta \text{MP}$ terms for median bank	0.041** [0.012]	0.060*** [0.000]	0.047*** [0.008]	-0.003 [0.460]	-0.000 [0.755]
Log total assets _{t-1}	-0.014 [0.266]	0.016 [0.462]	-0.021 [0.124]	0.003 [0.524]	-0.003* [0.070]
Tier 1 ratio _{t-1}	-0.001 [0.814]	-0.001 [0.670]	0.002 [0.575]	-0.002** [0.039]	0.000 [0.150]
Liquid asset ratio _{t-1}	-0.001 [0.143]	-0.002 [0.177]	-0.001 [0.109]	0.000 [0.162]	0.000* [0.073]
Net IG funding ratio _{t-1}	-0.014* [0.058]	-0.033*** [0.000]	-0.010 [0.195]	-0.038*** [0.000]	-0.004 [0.182]
Core deposits ratio _{t-1}	-0.001** [0.047]	-0.001 [0.278]	-0.001* [0.070]	0.000 [0.597]	-0.000** [0.027]
Channel _{t-4}	-0.011 [0.371]	-0.012 [0.440]	-0.005 [0.727]	0.007** [0.031]	0.002 [0.312]
Business cycle domestic _{t-1}	-0.002 [0.451]	-0.008** [0.041]	-0.000 [0.989]	-0.003*** [0.000]	-0.000 [0.593]
Business cycle _{j,t-1}	0.001 [0.170]	0.006*** [0.000]	-0.000 [0.727]	0.001 [0.328]	-0.000 [0.943]
Financial cycle domestic _{t-1}	-0.000 [0.543]	0.000 [0.495]	-0.000 [0.382]	0.000 [0.821]	-0.000* [0.081]
Financial cycle _{j,t-1}	-0.000 [0.820]	0.000 [0.798]	-0.000 [0.795]	0.000 [0.252]	0.000 [0.240]
$\Delta \text{MP}_{j,t-1}$	-0.000 [0.946]	-0.002*** [0.001]	0.000 [0.688]	-0.000 [0.308]	-0.000 [0.706]
VIX _{t-1}	-0.000 [0.875]	-0.001 [0.168]	0.000 [0.597]	-0.000 [0.715]	-0.000 [0.478]
Observations	25,029	9,776	23,825	35,157	35,229
R-squared	0.010	0.019	0.009	0.008	0.008
Adjusted R-squared	0.005	0.010	0.004	0.004	0.004
Number of banks	59	36	57	60	61
Number of countries	48	42	48	48	48
Monetary policy choice	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	ΔSSR	ΔSSR
Monetary policy counterparty country	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	$\Delta \text{Short rate}$	$\Delta \text{SSR if available}$	$\Delta \text{SSR if available}$

Table OA6: Portfolio Total Non-EA Foreign Claims - Non-bank Private - Dutch ICPFs

Each model's dependent variable contains claims to the non-bank private sector. In panel A the dependent variable is log changes in total claims from Dutch insurance companies. In panel B the dependent variable is log changes in total claims from Dutch pension funds. The data are quarterly from 2000Q1 to 2015Q4 for a panel of domestically-owned institutions with foreign exposures. All specifications include bank and counterparty country fixed effects. Standard errors are clustered by institution. ***, **, and * indicate significance at the 1%, 5%, and 10% level, respectively.

Panel A: Dutch Insurers

	(1)	(2)	(3)	(4)	(5)
Channel:	Basis	Macropru	Life versus non-life	Solvency	Size
$\Sigma\Delta\text{MP domestic}_t$ to t-3	0.000 [0.969]	0.005 [0.655]	0.012 [0.503]	-0.017 [0.448]	0.126 [0.391]
$\Sigma\Delta\text{MP domestic}_t$ to t-3*channel_t-4				0.006 [0.309]	-0.008 [0.361]
Total effect of $\Sigma\Delta\text{MP}$ terms for median ICPF				-0.010 [0.560]	0.118 [0.394]
$\Sigma\Delta\text{MP domestic}_t$ to t-3*life dummy [total effect]			-0.012 [0.503]		
Life dummy			0.011 [0.861]		
Log total assets_t-1	0.003 [0.886]	0.002 [0.947]	0.001 [0.980]	-0.020 [0.445]	
Solvency ratio_t-1	0.000 [0.815]	0.001 [0.565]	0.001 [0.620]		-0.003 [0.314]
Liquid asset ratio_t-1	0.384* [0.093]	0.208 [0.410]	0.189 [0.462]	0.214 [0.272]	0.250 [0.257]
International activities ratio_t-1	0.070 [0.743]	-0.908 [0.179]	-0.910 [0.178]	-0.073 [0.714]	-0.119 [0.570]
Channel_t-4				-0.004** [0.030]	-0.030 [0.168]
Cap req_t-1		0.038*** [0.005]			
Business cycle domestic_t-1	0.003 [0.439]	0.010** [0.015]	0.010** [0.016]	0.002 [0.541]	0.002 [0.611]
Business cycle_j,t-1	0.531 [0.111]	0.259 [0.460]	0.263 [0.453]	0.669** [0.044]	0.648* [0.052]
Financial cycle domestic_t-1	-0.003*** [0.001]	-0.004*** [0.000]	-0.004*** [0.000]	-0.003*** [0.003]	-0.003*** [0.005]
Financial cycle_j,t-1	0.067 [0.110]	0.084* [0.067]	0.084* [-0.068]	0.094** [0.019]	0.093** [0.020]
$\Delta\text{MP}_j,t-1$	-0.011 [0.121]	-0.012* [0.091]	-0.012* [0.094]	-0.007 [0.229]	-0.007 [0.215]
VIX_t-1	0.000 [0.682]	0.000 [0.486]	0.000 [0.480]	0.000 [0.824]	0.000 [0.932]
Observations	5,200	4,727	4,727	5,029	5,029
R-squared	0.084	0.093	0.093	0.084	0.082
Adjusted R-squared	0.073	0.080	0.080	0.071	0.070
Number of insurers	21	21	21	21	21
Number of countries	44	44	44	44	44

Panel B: Dutch Pension Funds

	(1)	(2)	(3)	(4)
Channel:	Basis	Macropru	Solvency	Size
$\Sigma\Delta MP$ domestic_t to t-3	-0.011 [0.531]	-0.013 [0.481]	0.040 [0.618]	-0.176 [0.345]
$\Sigma\Delta MP$ domestic_t to t-3*channel_t-4			-0.043 [0.518]	0.010 [0.394]
Total effect of $\Sigma\Delta MP$ terms for median ICPF			-0.003 [0.901]	-0.167 [0.342]
Log total assets_t-1	0.142*** [0.003]	0.201*** [0.000]	0.147*** [0.004]	
Solvency ratio_t-1	0.050 [0.123]	0.033 [0.293]		0.046 [0.186]
Liquid asset ratio_t-1	1.441*** [0.000]	1.379*** [0.001]	1.420*** [0.001]	1.370*** [0.001]
International activities ratio_t-1	0.204** [0.015]	0.357 [0.419]	0.200** [0.02]	0.211** [0.013]
Channel_t-4			0.094** [0.011]	0.163*** [0.001]
Cap req_t-1		0.016 [0.184]		
Business cycle domestic_t-1	-0.006 [0.290]	0.001 [0.816]	-0.011 [0.036]	-0.008 [0.157]
Business cycle_j,t-1	0.167 [0.699]	-0.010 [0.983]	0.247 [0.579]	0.232 [0.614]
Financial cycle domestic_t-1	0.003** [0.047]	0.003** [0.012]	0.003** [0.015]	0.004*** [0.008]
Financial cycle_j,t-1	0.026 [0.613]	0.073 [0.130]	0.027 [0.623]	0.027 [0.620]
$\Delta MP_j,t-1$	0.000 [0.966]	-0.001 [0.867]	0.004 [0.371]	0.003 [0.360]
VIX_t-1	-0.002** [0.013]	-0.002* [0.060]	-0.002*** [0.004]	-0.002*** [0.001]
Observations	8,828	7,934	8,662	8,662
R-squared	0.100	0.103	0.102	0.100
Adjusted R-squared	0.092	0.095	0.094	0.092
Number of pension funds	29	29	29	29
Number of countries	51	51	51	51