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**THE ADOPTION, IMPLEMENTATION AND IMPACT OF IMF PROGRAMS:
A REVIEW OF THE ISSUES AND EVIDENCE***

by

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Abstract

This paper evaluates the literature on the lending programs of the IMF. The first section deals with the initiation of a Fund program, which has been shown to be influenced by political and institutional variables. A second focus of research analyzes the design and implementation of Fund supported policies, since many programs are often not successfully completed. The third issue surveyed is the impact of IMF policies on the economy of the borrowing government. The effect of Fund programs on private capital flows is also examined. The last section presents issues that merit further research.

Keywords: IMF programs, conditionality

JEL Classifications: F3, O1

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THE ADOPTION, IMPLEMENTATION AND IMPACT OF IMF PROGRAMS: A REVIEW OF THE ISSUES AND EVIDENCE

INTRODUCTION

In recent years the activities of the International Monetary Fund have drawn increased attention. The rise in the scrutiny of Fund activities is due in part to the IMF's heightened profile. The IMF played a prominent role in dealing with the Asian currency crisis of 1997, as well as the subsequent crises in Russia, Brazil, and most recently, Turkey and Argentina. A number of studies were undertaken in response to criticisms of the IMF's policies, which resulted in proposals for changes in its response to crises.¹

The increase in public notice has been accompanied by a rise in scholarly work on the Fund. New questions about the adoption, implementation and outcome of the IMF's lending programs have been raised, while the political dimensions of these arrangements have received increased examination. Economists and political scientists have utilized innovative tools of theoretical and empirical analysis, such as game theory and duration models, to address these issues.

This paper reviews the recent literature on the IMF's lending programs, and outlines the advances that have been made and the issues that merit future analysis. It does not address all aspects of the Fund's activities, many of which have been examined in other surveys, such as Krueger (1998).² Rather, it assesses the state of our knowledge about IMF sponsored programs, and points to promising areas of further work.

The next section reviews the research that has been undertaken on the factors that affect the decision to initiate a program. Section III surveys issues relating to the design

and implementation of IMF programs, including the changing nature of conditionality and program completion. Section IV reviews the literature on the economic impact of Fund-sponsored policies. Section V deals with the response of private capital markets to IMF programs. The last section summarizes our understanding of Fund programs and delineates issues that need to be further explored.

EX ANTE COUNTRY CHARACTERISTICS

A member country of the IMF that faces an external sector crisis may request financial support from the Fund. A government that is participating in a program signs a “letter of intent,” which specifies the policies that it will implement to restore external sector balance.³ In some cases these have been “precautionary” programs, which indicates that the domestic government has stated that it does not intend to utilize the available credit. However, this is not a binding commitment, and the government can later reverse its decision and borrow from the Fund.

The Fund’s primary lending programs are the Stand-By Arrangement, which is designed to deal with short-term (usually one-year) balance-of-payments problems, and the Extended Fund Facility, which provides assistance for structural reforms and takes place over a longer time horizon, typically three years. The IMF also administers the Poverty Reduction and Growth Facility to provide assistance on concessional terms to low-income countries for the purposes of fostering economic growth and reducing poverty. The latter was known until 1999 as the Enhanced Structural Adjustment Facility, and it had replaced the Structural Adjustment Facility.

A substantial portion of the research devoted to Fund programs has dealt with the

economic characteristics of countries that adopt IMF programs. Among the papers that addressed this issue are those of Joyce (1992), Edwards and Santaella (1993), Conway (1994), Santaella (1996), and Knight and Santaella (1997). These studies often used a binary choice model to distinguish between countries and time periods where an IMF program was in place and those where it was not, and sought to determine the economic factors that influenced the initiation of a Fund program. Knight and Santaella (1997) pointed out that these estimation equations can be interpreted as the reduced form derived from the “demand” for a Fund program by a borrowing country and the IMF’s “supply.”

Bird (1996) summarized this literature, and the areas of overlap and disagreement. He noted that these studies generally showed that the adoption of a Fund program was linked to the occurrence of balance of payments deficits, low levels of reserve holdings, increased debt, an overvalued exchange rate, and a record of past programs. These features are consistent with economies that have external disequilibria, and therefore fall under the IMF’s mandate in its Articles of Agreement to address such imbalances.⁴ However, the studies left unexplained much of the variation in the occurrence of Fund programs.

Recent work has focused on political and institutional determinants of Fund borrowing. The relevant papers include those of Thacker (1999), Vreeland (1999, 2003), Przeworski and Vreeland (2000), Bird and Rowlands (2001b), Barro and Lee (2003) and Dreher and Vaubel (2004). The literature has progressed enough for some areas of consensus to emerge. Thacker (1999) and Barro and Lee (2003), for example, found evidence that access to Fund programs is skewed towards countries that are aligned with the US, as measured by United Nations voting patterns. Przeworski and Vreeland (2000)

and Dreher and Vaubel (2004) report that governments are more likely to enter into an agreement with the IMF in the year after an election, suggesting that some form of political business cycle may exist. Oatley and Yackee (2000) and Oatley (2002) found that the size of a country's IMF loan is related to the size of its commercial bank debt.

While political and institutional factors undoubtedly play a role in the decision to initiate a Fund program, the evidence to date does not indicate that they have a predominating influence. Bird and Rowlands (2001b), for example, found that while such variables are in some cases statistically significant, they do not greatly increase the ability of models to predict the occurrence of Fund programs. Sturm, Berger and de Haan (2002) reported a similar result in their tests of the determinants of changes in the amount of IMF credit disbursed. While this area of research on the IMF's programs, therefore, may have reached the point of diminishing returns, it does provide evidence on the economic and political factors that make borrowing from the Fund more likely.

Another approach to explaining patterns of IMF lending has been taken by Vaubel (1991, 1994, 1996), who utilized public choice theory. He maintains that an increase in lending allows Fund officials to maximize their power and remuneration, as manifested by their budget and staff size, as well as operational independence. Willett (2001, 2002) also adopts a public choice perspective, although he differs from Vaubel in emphasizing institutional autonomy and a desire to avoid failure as determinants of the actions of Fund officials. This line of analysis seems better suited at explaining lending in the aggregate than the start of individual programs.

The significance of past lending in explaining the introduction of new programs has recently led to a new focus of research on the use of Fund credit. A number of

countries have participated in consecutive lending programs over time. Such continued borrowing would appear to contradict the IMF's own Articles of Agreement, which include as a purpose of the Fund the "temporary" availability of its resources to member countries.

Several studies have dealt with the characteristics of countries that are frequent borrowers. The IMF's new Independent Evaluation Office's first report (2002) dealt with the prolonged use of IMF resources, and found that the programs of frequent users exhibited an optimistic bias in their projections of growth. Bird, Hussain and Joyce (2004) used models of count data to examine the characteristics of "recidivist" borrowers, and found that the factors that contributed to prolonged borrowing included low reserve holdings, frequent current account deficits, large debt service ratios, and low investment rates. Conway (2000) examined how participation in IMF programs affects the probabilities of a country entering and exiting a crisis. He reported that participation in Fund programs lessens the length of an external crisis, but that continuing reliance on Fund programs weakens this effect.

Duration models have been used to examine the spells of uninterrupted program participation. Conway (2003) reported that prior participation in IMF programs is negatively related to the length of a new spell, while the length of time between spells increases with cumulative prior participation. Joyce (2004) investigated the factors that affect these spells, and found evidence of extended program duration for countries with lower per-capita income, exports concentrated in primary goods and autocratic regimes.

These studies shift the focus from the decision by a government to adopt a program in period t to a government's sequential decisions regarding participation in

Fund programs over periods t , $t+1$, $t+2$, etc. A government may use a multi-period perspective when deciding whether to fulfill all the conditions of a particular program, or to let a program lapse in hopes of negotiating a more favorable one in the following period (see the discussion in the next section). This choice will be based on a government's assessment of its bargaining ability vis-a-vis the Fund as well as its forecast of future economic conditions. Modeling this intertemporal governmental decision-making process could be a useful area of future research.

PROGRAM DESIGN AND IMPLEMENTATION

The Fund disburses credit only if a government adheres to the policies outlined in the letter of intent. The IMF periodically evaluates a country's fulfillment of its obligations as measured by performance criteria, structural benchmarks and overall program reviews, and non-compliance usually results in the suspension or termination of a program.⁵ Several studies, including those of Killick (1996, 1997), examine the justification for conditionality in the context of a principal-agent relationship, where the IMF seeks to ensure that the borrowing government implements policies consistent with the Fund's goals, with conditionality serving as a monitoring device.

Much recent work has dealt with the changing nature of the policy conditions. IMF conditionality traditionally focused on measures of demand-management, such as constraints on a central bank's holdings of domestic assets and a government's fiscal position. The increased emphasis by the IMF on growth as an objective has resulted in the increasing use of structural conditions. These measures are designed to foster the use of markets in the allocation of resources, and include domestic deregulation and the liberalization of trade and capital flows.

The programs initiated during the Asian crisis were criticized for imposing an excessive number of structural conditions, particularly in the case of Indonesia. Goldstein (2000) examined the record of structural conditions in IMF programs and found an increase in the average number of structural these conditions in programs over time. Goldstein (2000) and Bird (2001b) suggested that this might have led to a decline in program compliance. Dreher and Vaubel (2003), who use a public choice perspective, found that the number of conditions depended negatively on international reserves and positively on world interest rates, domestic monetary conditions and the number of World Bank loans. Dreher (2003b) also showed that the number of IMF conditions increased with participation in World Bank programs. Gould (2003) attributed the rise in the use of structural conditions to the influence of private creditors who supplement Fund resources.

The IMF itself (2001a, 2001b, 2001c, 2001d) undertook several studies of conditionality in the aftermath of the Asian crisis. The authors of these reports also reported an increase in the number of structural conditions contained in Fund programs, but claimed that there was no evidence that the number of criteria was linked to program compliance. However, they did agree that conditionality should be streamlined.

The record of program completion by borrowing countries has received increasing scrutiny. Killick (1995) undertook an examination of programs that took place between 1979 and 1993, and used the proportion of credit actually disbursed by the end of a program relative to the amount initially committed as a criterion to measure program completion. He selected a 80% disbursement rate as a floor to indicate whether or not a program was “completed.”⁶

Killick (1995) reported that by this standard only 47% of all programs were successfully completed. He found empirical evidence that the completion rate was affected by a country's external debt position, with more frequent breakdowns in program completion occurring in highly indebted countries. He also found that the size of the IMF's initial commitment of credit relative to a country's current account deficit was higher in those countries that did successfully finish their programs.

Mussa and Savastano (2000) provided a comprehensive review of the IMF's lending arrangements over the period 1973 and 1997. They point out that a country may not receive all of the originally planned credit for a number of reasons, including external shocks. In some of these cases the program is canceled early because of an unanticipated change in the external environment and a new arrangement is made.

They characterized those programs where 75% or more of the planned credit was actually disbursed as situations where the governments generally completed the agreed-on policies. Such programs represented 46% of the total, which is almost identical to Killick's (1995) calculation of the proportion of successful completions. The programs where 50% to 75% of the credit was disbursed represent a range of circumstances and outcomes, including some successful programs, some that were rescheduled and some that were not finished because of failure to comply with the performance criteria. There was a serious divergence between the planned policies and those executed in the remaining cases where less than one half of the planned credit was disbursed.

Studies originating at the IMF of its programs have pointed to the importance of political factors in successful program implementation. Schadler et al. (1995) pointed out that there is a large variation among countries in their commitment to carrying out reform

measures, while Mecagni (1999) attributed a major proportion of program breakdowns to political changes and civil instability. The IMF's (2001b) own study of the literature on program implementation concluded that a national commitment to reform is necessary to the successful completion of a program.⁷

Theoretical models based on a political economy perspective focus on the domestic political factors that affect program implementation. These models stress the divergent interests of the different interest groups within a country and the impact of an IMF program on their relative positions. Vreeland (1999), for example, contends that some governments adopt Fund programs even when economic conditions do not warrant one in order to increase their bargaining leverage over domestic opponents of reform policies.

Drazen (2001) and Mayer and Mourmouras (2002) presented models of the political environment within a borrowing country, where there are "veto players" within a government and special interest groups outside that could block reform. Mayer and Mourmouras (2002) demonstrate that conditional assistance can strengthen or "tip the hand" of the reformers. Boughton and Mourmouras (2002) reviewed this theoretical modeling of policy reform and drew implications for strengthening policy ownership, a subject also analyzed by Khan and Sharma (2001).

Ivanova, Mayer, Mourmouras and Anayiotas (2003) used several measurements of program implementation in their study of the factors that affect the outcomes of Fund programs. They reported that completion is linked to domestic political conditions, including political cohesion, ethnic fragmentation, conflict, and the strength of special interests. Joyce (2003) found that program implementation is affected by a country's

trade openness, the ideological cohesion of the government, the duration of the political regime, and the degree of political openness. In a related study, Dreher (2004) showed that governments that finish IMF programs in the year before an election increase the probability of their re-election.

Other studies have examined the Fund's behavior in cases of program suspension. Stone (2002), for example, reported evidence to support the hypothesis that the IMF is more likely to suspend programs in more "important countries," as measured by the size of their IMF quotas, US foreign aid, and aid from other OECD members, but for shorter periods. Dreher (2003a) found that non-compliance with conditionality and program suspension is more likely to take place prior to elections, but this happens less frequently in democratic countries. Edwards (2003a) showed that democracies with fractionalized legislatures perform poorly in IMF programs and are more likely to be sanctioned.

In response to its critics, the IMF now emphasizes the ownership of programs in order to achieve their successful completion. The Fund is paying more attention to the domestic political environment when dealing with a country. For example, the IMF and the World Bank have sought to broaden the basis of support within a country for their programs by developing Poverty Reduction Strategy Papers that describe the policies needed to promote growth in consultation with a broad range of parties. A future focus of research will be evaluating whether this new emphasis affects program completion.

EX POST POLICY IMPACT

The economic policies stipulated in a program are designed to restore a sustainable balance of payments position in the short-run while encouraging long-term

output growth. An extensive amount of research has addressed the issue of whether Fund-supported policies actually improve economic performance, as manifested through the balance of payments, inflation and growth. These studies seek to determine the efficacy of the measures that the IMF recommends.

A crucial component of the empirical analysis has been the construction of the “counterfactual,” a country’s economic performance if it had not elected to adopt a program to serve as a basis of comparison with the actual record. A variety of approaches have been adopted for this purpose. The “before-after” approach compares a country’s post-program performance with its performance before the program. The “with-without” approach contrasts changes in target variables in program countries with changes in a control group of non-program countries. Both methods, however, ignore the systematic differences between the countries and periods where lending occurs and those where it does not. Studies that ignore these differences may exaggerate the impact of Fund programs.

Goldstein and Montiel (1986) developed a generalized evaluation estimator (GEE) to deal with this problem. The GEE controls for the differences between countries and takes into account the policies that would have prevailed in the absence of a Fund program. This approach has been taken in many subsequent studies, such as those of Khan (1990) and Conway (1994). Recent contributions in this area include the works of Bagci and Perraudin (1997), Prezworski and Vreeland (2000), Dicks-Mireaux, Mecagni and Schadler (2000), Evrensel (2002), Barro and Lee (2003), Hutchison (2003) and Hutchison and Noy (2003).

Haque and Khan (1998) provided a comprehensive survey of this literature. They

report that the empirical evidence generally indicates:

...that Fund-supported programs lead to an improvement in the current account balance and the overall balance of payments. The results for inflation are less clear cut...In the case of growth, the consensus seems to be that output will be depressed in the short-run as the demand-reducing elements of the policy package dominate. Over time the structural reform elements of the program start to take effect and growth begins to rise...⁸

Bird (2001a) in a later survey agrees with this assessment, except with respect to the impact of IMF programs on growth. He finds that the evidence from recent studies indicates no impact or a negative one.

Other recent works have attempted to measure the impact of IMF programs on income distribution and poverty. Garuda (2000) found that participation in Fund programs has important distributional effects that depend on a country's pre-income situation, with negative consequences for countries in the worst circumstances. Similarly, Vreeland (2002) reported that labor's share of income is lower in countries with IMF programs. Easterly (2003) investigated the impact of structural adjustment programs of the IMF and World Bank and reported that such programs lower the impact of economic fluctuations on poverty, i.e., economic expansions benefit the poor less but contractions hurt them less.

This literature has generally not taken into account the compliance of the countries in IMF programs with their programs' conditionality. This is a surprising

omission, since presumably a country's economic performance will vary in response to its implementation of the program's policies. Assessing the performance of program countries without discriminating among them by their degree of compliance could give a misleading view of the effects of IMF programs. On the other hand, if no systematic linkages exist, then new questions arise about the effectiveness of Fund-supported policies and the need for conditionality.

Killick, Malik and Manual (1992) did compare the impact on the balance of payments of completed vs. uncompleted programs, but did not find evidence of a significant difference in the two groups. Conway (1994) included measurements of the time spent in programs and the amount of credit actually disbursed in his analysis of the economic impact of Fund programs. Ergin (1999) also addressed this issue, and used different measurements of participation in Fund programs, including a time-weighted utilization of IMF credit which served as a proxy for program compliance. He found that sustained access to Fund credit led to improvements in the current account and real output, and a significant decline in the inflation rate. Mercer-Blackman and Unigovskaya (2000) used the Fund's Database for Monitoring Fund Arrangements (MONA), and reported evidence of a link in the transition economies between growth and compliance, as measured by MONA's Index of Fund Program Implementation. Boockmann and Dreher (2003) found that neither the number of IMF programs nor the net flow of credit disbursed had an impact on an index of economic freedom.

The impact of Fund programs on economic performance has consequences for the occurrence of future programs. Policies that are effective reduce the need for new programs. Unsuccessful policies could lead to more programs to address recurring

problems, although programs with negative side effects may drive countries away. Assessing the effect of IMF programs on economic performance will undoubtedly continue to be an important area of research.

IMF PROGRAMS AND CAPITAL MARKETS

The research reviewed to this stage has dealt with the relationship of the IMF and the member countries that participate in a program. However, Fund lending does not take place in isolation. There are other sources of financial resources potentially available to a country, both public and private, and these may be affected by the operations of Fund programs.

The IMF itself states that the existence of an agreement with a country “...reassures investors and the official community and helps generate additional financing from these sources. Thus, IMF financing can act as an important lever, or catalyst, for attracting other funds.”⁹ A large number of studies have tested the validity of this claim.¹⁰ Rodrik (1996), Bird and Rowlands (1997, 2001a) and Ergin (1999), using different measurements of private capital flows, found no evidence that IMF lending to a country was followed by an increase in private credit flows. However, Ergin (1999) and Rowlands (2001) did find evidence of an increase in lending from other public sources, which is consistent with the Fund’s lead role in coordinating multilateral assistance.

These findings indicate that the existence of a Fund program does not serve as a sufficient condition to warrant an increase in private capital flows. This result is not surprising in view of the record on program completion and impact reviewed above. It would be more fruitful to examine whether the private markets differentiate between

successful and unsuccessful programs.

Edwards (2003b) addresses this issue, as well as the problem of selection bias. He also found little evidence of a catalytic effect, although he does report a decrease in capital flows for program countries that had compliance problems in the past. Similarly, Mody and Savaria (2003) demonstrated that a country's fundamentals, such as the volatility of exports, its reserves and its debt, determine the effect of a program on the spreads that borrowing countries paid at the time of bond issuance. They also showed that prolonged usage of Fund resources raises the spreads. Benelli (2003) reported that the amount of financial assistance provided in a program is inversely related to whether the projections for net private capital flows are met. Macro policy adjustment seemed to have a positive impact on such flows.

The initiation of a Fund program may affect private capital markets through an impact on existing debt. Marchesi and Thomas (1999) presented a model in which the presence of an IMF program does serve as a signaling device of a country's willingness and ability to undertake substantive reform. In these circumstances, private creditors are more willing to reschedule the country's external debt. Marchesi (2003) empirically tested this prediction and reported evidence in support of it. Easton and Rockerbie (1999) found that participation in an IMF program lowers the expected probability of a loan default and the average spread over LIBOR.

The reaction of the private financial markets to the start of IMF programs could be an important factor in the eventual economic impact of these programs. Fund programs are designed to encourage private lending, but this outcome does not always take place. An increase in capital flows may depend in part on the status of financial

markets within a country, as well as the assessment of private creditors of the extent of reform measures. The literature on the determinants of capital flows to emerging economies may be useful in understanding how IMF programs could lead to increased capital flows.

Although Fund lending does not seem to be systematically followed by inflows of private capital, the Fund has been criticized in recent years for indirectly encouraging risky behavior by either borrowers or private creditors. Moral hazard poses a problem if the potential availability of Fund support encourages risky loans to be made that precipitate or worsen a crisis. While the dangers of moral hazard have been frequently raised by the critics of the IMF, there is a paucity of evidence on its actual magnitude and relevance.¹¹ This is partly due to the problem of contrasting a countervailing situation.

A number of papers have utilized the spreads on the bonds of emerging markets to determine whether the bond markets reacted to events such as IMF lending during a crisis. Zhang (1999) reported that he found no evidence of moral hazard in the wake of the Mexican crisis, and Kamin (2002) also did not find evidence of a change in the access of emerging markets to credit after the Mexican crisis. On the other hand, Sarno and Taylor (1999) found that moral hazard affected the flows of capital to East Asia. Dell’Aricca, Gödde and Zettelmeyer (2002) presented evidence in the case of the Russian crisis consistent with the existence of moral hazard, but cautioned that their findings could also be due to a change in the market’s perception of risk in emerging markets.

Lane and Phillips (2000) reported a mixed record of market responses to news of Fund initiatives. Evrensel and Kutan (2003) conducted an empirical analysis of creditor behavior in several countries, and found results consistent with moral hazard in the case

of the Korean asset markets. The limited evidence on moral hazard indicates that more research is needed in this area, particularly as developing countries move to liberalize capital flows.

SUMMARY

A balance sheet of our knowledge regarding the IMF's lending programs would show entries on both sides of the ledger. Areas of consensus include:

- Countries that participate in IMF programs usually show signs of an external imbalance: large current account deficits, low reserve levels, high debt burdens and an overvalued exchange rate. In addition, they have often utilized Fund assistance before. Their governments are supportive of the US in forums such as the United Nations. IMF lending often occurs in the year after an election.
- Some countries have participated in a continuous series of Fund programs over time. Moreover, a large proportion of Fund programs are not successfully completed. Incomplete implementation is due in part to adverse domestic political conditions that hinder the chances of economic reform.
- The execution of IMF-sponsored policies improves a country's external balance, as measured through the balance of payments. There may also be an accompanying decline in output. There is little evidence of a systematic effect on inflation.
- There is no evidence of a systematic increase in private capital flows in the wake of Fund programs. However, foreign creditors may be more willing to reschedule debt. Credit from other official sources does increase.

There are many aspects of IMF programs, however, that we do not yet fully understand. Among the unanswered questions are:

- Some countries do not enter a Fund program despite adverse economic circumstances. Is there a high initial political cost in approaching the IMF, which then falls with each successive program?

- Is recurring lending the result of unsuccessful implementation of previous programs, badly-designed policies, systematic external shocks, or other factor(s)?

- Is the partial completion of programs related to the design of the programs, as well as unfavorable domestic economic and political conditions? How does it differ by type of program?

- Are private capital flows a substitute or complement to IMF credit? Do private lenders distinguish between countries with “successful” programs as opposed to those with uncompleted programs?

- Is there evidence that demonstrates that moral hazard has led to crises because of risky behavior by private lenders or borrowing countries?

These questions represent a far-ranging agenda of research. In many cases similar questions have been raised in other contexts, including the study of currency crises, the political economy of reform, the effectiveness of foreign aid and the determinants of capital flows to emerging economies. Research on IMF lending can absorb findings from these related areas to provide new insights on these programs, which in turn may be incorporated into the Fund’s future lending policies.

NOTES

¹ See, for example, Council on Foreign Relations (1999), De Gregorio, Eichengreen, Ito and Wyplosz (1999) and International Financial Institution Advisory Commission (2000).

² Comprehensive listings of research on the IMF and World Bank, including those that are cited in this paper, are available at the International Financial Institutions Research Site: www.wellesley.edu/Economics/IFI/index.html.

³ A country may obtain foreign exchange worth up to 25% of its quota with minimal conditionality. See Mussa and Savastano (2000) for a description of the process whereby a program is initiated.

⁴ Article of Agreement I (vi).

⁵ The Fund does grant waivers in situations where it feels they are warranted.

⁶ The disbursement rate would not be appropriate for precautionary programs, since the domestic government does not intend to utilize the resources. Even if it does borrow, it may not need the entire committed amount.

⁷ See IMF (2001b), p. 52.

⁸ Haque and Khan (1998), p. 19.

⁹ “What is the IMF?” on the Fund web site www.imf.org, August 2001.

¹⁰ See Cottarelli and Giannini (2002) for a thorough review of these studies.

¹¹ Evrensel and Kutan (2003) provide a critical review of this literature.

REFERENCES

Bagci, P and Perraudin, P. 1997: 'The Impact of IMF Programmes.' Global Economic Institutions Working Paper No. 24.

Barro, RJ and Lee, J-W. 2003: IMF Programs: Who is Chosen and What are the Effects? (mimeo).

Benelli, R. 2003: 'Do IMF-Supported Programs Boost Private Capital Inflows? The Role of Program Size and Policy Adjustment.' IMF Working Paper No. 03/231, Washington.

Bird, G. 1996: Borrowing from the IMF: The Policy Implications of Recent Empirical Research. *World Development* 24 (11): 1753-1760.

Bird, G. 2001a: IMF Programs: Do They Work? Can They Be Made To Work Better? *World Development* 29 (11): 1849-1865.

Bird, G. 2001b: IMF Programmes: Is There a Conditionality Laffer Curve? *World Economics* 2 (2): 29-49.

Bird, G and Rowlands, D. 1997: The Catalytic Effect of Lending by the International Financial Institutions. *World Economy* 20 (7): 967-991.

Bird, G and Rowlands, D. 2001a: Catalysis or Direct Borrowing: The Role of the IMF in Mobilising Private Capital. *World Economy* 24 (1): 81-98.

Bird, G and Rowlands, D. 2001b: IMF Lending: How Is It Affected by Economic, Political, and Institutional Factors? *Journal of Policy Reform* 4 (3): 243-270.

Bird, G, Hussain, M and Joyce, JP: 2004. Many Happy Returns? Recidivism and the IMF. *Journal of International Money and Finance* (forthcoming).

Boockmann, B and Dreher, A. 2003: The Contribution of the IMF and the World Bank to Economic Freedom. *European Journal of Political Economy*. 19 (3): 633-649.

Boughton, JM. and Mourmouras, A. 2002: 'Is Policy Ownership An Operational Concept?' IMF Working Paper No. 02/72, Washington.

Conway, P. 1994: IMF Lending Programs: Participation and Impact. *Journal of Development Economics* 45 (2): 355-391.

Conway, P. 2000: IMF Programs and Economic Crisis: An Empirical Study of Transition (mimeo).

Conway, P. 2003. Duration and Recidivism in IMF Programs: Evidence from the Period 1973-1992 (mimeo).

Cottarelli, C and Curzio, G. 2002: 'Bedfellows, Hostages, or Perfect Strangers? Global Capital Markets and the Catalytic Effect of IMF Crisis Lending.' IMF Working Paper No. 02/192, Washington.

Council on Foreign Relations. 1999: *Safeguarding Prosperity in a Global Financial System: The Future International Financial Architecture*. Institute for International Economics: Washington.

De Gregorio, J, Eichengreen, B, Ito, T and Wyplosz, C. 1999: *An Independent and Accountable IMF*. International Center for Monetary and Banking Studies and Centre for Economic Policy Research: Geneva and London.

Dell'Aricca, G, Gödde, I and Zettelmeyer, J. 2002. 'Moral Hazard and International Crisis Lending.' IMF Working Paper No. 02/181, Washington.

Dicks-Mireaux, L, Mecagni, M and Schadler, S. 2000: Evaluating the Effect of IMF Lending to Low-Income Countries. *Journal of Development Economics* 61 (2): 495-526.

Drazen, A. 2002: Conditionality and Ownership in IMF Lending: A Political Economy Approach. *IMF Staff Papers* 49 (0): 36-67.

Dreher, A. 2003a: The Influence of Elections on IMF Programme Interruptions. *Journal of Development Studies* 39 (6): 101-120.

Dreher, A. 2003b: A Public Choice Perspective of IMF and World Bank Lending and Conditionality. *Public Choice* (forthcoming).

Dreher, A. 2004: The Influence of IMF Programs on the Re-election of Debtor Governments. *Economics & Politics* (forthcoming).

Dreher, A and Vaubel, R. 2003. The Causes and Consequences of IMF Conditionality. *Emerging Markets Finance and Trade* (forthcoming).

Dreher, A and Vaubel, R. 2004: Do the IMF and IBRD Cause Moral Hazard and Political Business Cycles? Evidence from Panel Data. *Open Economies Review* 15 (1): 5 -22.

Easterly, W. 2003: IMF and World Bank Structural Adjustment Programs and Poverty. In: Dooley, M and Frankel, JA (eds.) *Managing Currency Crises in*

Emerging Markets. University of Chicago: Chicago, IL, pp. 361-382.

Easton, ST and Rickerbie, DW. 1999: Does IMF Conditionality Benefit Lenders? *Weltwirtschaftliches Archiv* 135 (2): 347-357.

Edwards, M. 2003a: Domestic Institutions and Economic Performance under IMF Programs, 1979-1995 (mimeo).

Edwards, M. 2003b: Signaling Credibility? The IMF and Catalytic Finance (mimeo).

Edwards, S and Santaella, JA. 1993: Devaluation Controversies in the Developing Countries: Lessons from the Bretton Woods Era. In: Bordo, MD and Eichengreen, B (eds.). *A Retrospective on the Bretton Woods System: Lessons for International Monetary Reform*. University of Chicago Press: Chicago, pp. 405-455.

Ergin, E. 1999: 'Determinants and Consequences of International Monetary Fund Programs.' PhD. dissertation. Stanford University.

Evrensel, AY. 2002: Effectiveness of IMF-Supported Stabilization Programs in Developing Countries. *Journal of International Money and Finance* 21 (5): 565-587.

Evrensel, AY and Kutan, AK. 2003: The IMF and Creditor Moral Hazard and New Evidence (mimeo).

Garuda, G. 2000: The Distributional Effects of IMF Programs: A Cross-Country Analysis. *World Development* 28 (6): 1031-1051.

Goldstein, M. 2000: IMF Structural Programs. In: Feldstein, M (ed.). *Economic and Financial Crises in Emerging Market Economies*. University of Chicago: Chicago, pp. 363-437.

Goldstein, M and Montiel, PJ. 1986: Evaluating Fund Stabilization Programs with Multicountry Data: Some Methodological Pitfalls. *IMF Staff Papers* 33 (2): 304-344.

Gould, E. 2003: Money Talks: Supplementary Financiers and International Monetary Fund Conditionality. *International Organization* 57 (3): 551-586.

Haque, NU and Khan, MS. 1998: 'Do IMF-Supported Programs Work? A Survey of the Cross-Country Empirical Evidence.' IMF Working Paper No. 98/169, Washington.

Hutchison, MM. 2003: A Cure Worse than the Disease? Currency Crises and the Output Costs of IMF-Supported Stabilization Programs. In: Dooley, M and Frankel, JA (eds.). *Managing Currency Crises in Emerging Markets*. University of Chicago: Chicago, pp. 321-354.

Hutchison, MM. and Noy, I. 2003. Macroeconomic Effects of IMF-Sponsored Programs in Latin America: Output Costs, Program Recidivism and the Vicious Cycle of Failed Stabilization. *Journal of International Money and Finance* 22 (7): 91-1014.

International Financial Institution Advisory Commission. 2000: *Report of the International Financial Institution Advisory Commission*. U.S. Government Printing Office: Washington.

International Monetary Fund. 2001a. 'Conditionality in Fund-Supported Programs: Overview.' IMF: Washington.

International Monetary Fund. 2001b. 'Conditionality in Fund-Supported Programs: Policy Issues.' IMF: Washington.

International Monetary Fund. 2001c. Conditionality in Fund-Supported Programs. IMF: Washington.

International Monetary Fund. 2001d. 'Trade Policy Conditionality in Fund-Supported Programs.' IMF: Washington.

International Monetary Fund. 2002. 'Evaluation of Prolonged Use of IMF Resources.' Independent Evaluation Office, Washington.

Ivanova, A, Mayer, W, Mourmouras, A and Anayiotas, G. 2003: 'What Determines the Success or Failure of Fund-Supported Programs?' IMF Working Paper No. 03/8, Washington.

Joyce, JP. 1992. The Economic Characteristics of IMF Program Countries. *Economics Letters* 38 (2): 237-242.

Joyce, JP. 2003: 'Promises Made, Promises Broken: A Model of IMF Program Implementation.' Wellesley College Economics Department Working Paper No. 2003-03.

Joyce, JP. 2004: 'Time Present and Time Past: A Duration Analysis of IMF Program Spells.' *Review of International Economics* (forthcoming).

Kamin, SB. 2002: 'Identifying the Role of Moral Hazard in International Financial Markets.' International Finance Discussion Paper No. 736, Federal Reserve Board of Governors, Washington.

Khan, MS. 1990. The Macroeconomic Effects of Fund-Supported Adjustment Programs. *IMF Staff Papers* 37 (2): 1-23.

Khan, MS. and Sharma, S. 2001: 'IMF Conditionality and Country Ownership of

Programs.’ IMF Working Paper No. 01/142, Washington.

Killick, T. 1995: *IMF Programmes in Developing Countries*. Routledge: London.

Killick, T. 1996: Principals, Agents and the Limitations of BWI Conditionality. *World Economy* 19 (2): 211-229.

Killick, T. 1997: Principals, Agents and the Failings of Conditionality. *Journal of International Development* 9 (4): 483-495.

Killick, T, Malik, M and Manuel, M. 1992: What Can We Know About the Effects of IMF Programmes? *World Economy* 15 (5): 575-597.

Knight, M and Santaella, JA. 1997: Economic Determinants of IMF Financial Arrangements. *Journal of Development Economics* 54 (2): 405-436.

Krueger, AO. 1998: Whither the World Bank and the IMF? *Journal of Economic Literature* 36 (4): 1983-2020.

Lane, T and Phillips, S. 2000. ‘Does IMF Financing Result in Moral Hazard?’ IMF Working Paper No. 00/168, Washington.

Marchesi, S. 2003: Adoption of an IMF Programme and Debt Rescheduling: An

Empirical Analysis. *Journal of Development Economics* 70 (2): 403-423.

Marchesi, S and Thomas, JP. 1999: IMF Conditionality as a Screening Device. *Economic Journal* 109 (454): C111-C125.

Mayer, W and Mourmouras, A. 2002: 'Vested Interests in a Political Theory of IFI Conditionality.' IMF Working Paper No. 02/73, Washington.

Mecagni, M. 1999. The Causes of Program Interruptions. In: Bredenkamp, H and Schadler, S (eds.). *Economic Adjustment and Reform in Low-Income Countries*. IMF: Washington, pp. 215-276.

Mercer-Blackman, V and Unigovskaya, A. 2000: 'Compliance with IMF Program Indicators and Growth in Transition Economies.' IMF Working Paper No. 00/47, Washington.

Mody, A and Saravia, D. 2003: 'Catalyzing Private Capital Flows: Do IMF-Supported Programs Work as Commitment Devices?' IMF Working Paper No. 03/100, Washington.

Mussa, M and Savastano, MA. 2000: The IMF Approach to Economic Stabilization. In Bernanke, BS and Rotemberg, JJ (eds.). *NBER Macroeconomics Annual 1999*. MIT Press: Cambridge, MA, pp. 79-122.

Oatley, T. 2002: Commercial Banks and the International Monetary Fund: An Empirical Analysis (mineo).

Oatley, T. and Yackee, J. 2000: Political Determinants of IMF Balance of Payments Lending: The Curse of Carabosse? (mimeo).

Przeworski, A and Vreeland, JR. 2000: The Effect of IMF Programs on Economic Growth. *Journal of Development Economics* 62 (2): 385-421.

Rodrik, D. 1996: Why is There Multilateral Lending? In Bruno, M and Pleskovic, B. (eds.). *Annual World Bank Conference on Development Economics 1995*. World Bank: Washington, pp. 167-193.

Rowlands, D. 2001: The Response of Other Lenders to the IMF. *Review of International Economics* 9 (3): 531-546.

Santaella, JA. 1996: Stylized Facts Before IMF-Supported Macroeconomic Adjustment. *IMF Staff Papers* 43 (3): 502-544.

Sarno, L and Taylor, MP. 1999. Moral Hazard, Asset Price Bubbles, Capital Flows, and the East Asian Crisis: The First Tests. *Journal of International Money and Finance* 18 (4): 637-657.

Schadler, S, Bennett, A, Carkovic, M, Dicks-Mireaux, L, Mecagni, M, Morsink, JHJ and Savastano, MA. 1995: 'IMF Conditionality: Experience Under Stand-By and Extended Arrangements. Part I: Key Issues and Findings. Part II: Background Papers.' IMF Occasional Papers No. 128 and No. 129, Washington.

Stone, RW. 2002: *Lending Credibility: The International Monetary Fund and the Post-Communist Transition*. Princeton University Press: Princeton, NJ.

Sturm, JE, Berger, H and de Haan, J. 2002: 'IMF Credit: How Important Are Political Factors? A Robustness Analysis.' Center for Economic Studies & Ifo Institute for Economic Research Working Paper No. 642 (6). Munich.

Thacker, SC. 1999: The High Politics of IMF Lending. *World Politics* 52 (1): 38-75.

Vaubel, R. 1991: The Political Economy of the International Monetary Fund: A Public Choice Analysis. In: Vaubel, R and Willett, T (eds.). *The Political Economy of International Organizations*. Westview Press: Boulder, CO, pp. 204-244.

Vaubel, R. 1994: The Political Economy of the IMF: A Public Choice Analysis. In: Bandow, D and Vásquez, I (eds.). *Perpetuating Poverty: The World Bank, the IMF and the Developing World*. Cato Institute: Washington, DC, pp. 37-55.

Vaubel, R. 1996: Bureaucracy at the IMF and World Bank: A Comparison of the

Evidence. *World Economy* 19 (2): 195-210.

Vreeland, JR. 1999: The IMF: Lender of Last Resort or Scapegoat? (mimeo).

Vreeland, JR. 2002: The Effect of IMF Programs on Labor. *World Development* 30 (1): 121-39.

Vreeland, JR. 2003. *The IMF and Economic Development*. Cambridge University Press: Cambridge, UK.

Willett, TD. 2001: Upping the Ante for Political Economy Analysis of the International Financial Institutions. *World Economy* 24 (3): 317-32.

Willett, TD. 2002: Towards a Broader Public Choice Analysis of the International Monetary Fund (mimeo).

Zhang, XA. 1999: 'Testing for "Moral Hazard" in Emerging Markets Lending.' Institute of International Finance Research Paper No. 99-1.