

The Global Drug Facility: a unique, holistic and pioneering approach to drug procurement and management

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Abstract In January 2006, the Stop TB Partnership launched the Global Plan to Stop TB 2006–2015, which describes the actions and resources needed to reduce tuberculosis (TB) incidence, prevalence and deaths. A fundamental aim of the Global Plan is to expand equitable access to affordable high-quality anti-tuberculous drugs and diagnostics. A principal tool developed by the Stop TB Partnership to achieve this is the Global Drug Facility (GDF).

This paper demonstrates the GDF's unique, holistic and pioneering approach to drug procurement and management by analysing its key achievements. One of these has been to provide 9 million patient-treatments to 78 countries in its first 6 years of operation. The GDF recognized that the incentives provided by free or affordable anti-tuberculosis drugs are not sufficient to induce governments to improve their programmes' standards and coverage, nor does the provision of free or affordable drugs guarantee that there is broad access to, and use of, drug treatment in cases where procurement systems are weak, regulatory hurdles exist or there are unreliable distribution and storage systems. Thus, the paper also illustrates how the GDF has contributed towards making sustained improvements in the capacity of countries worldwide to properly manage their anti-TB drugs. This paper also assesses some of the limitations, shortcomings and risks associated with the model. The paper concludes by examining the GDF's key plans and strategies for the future, and the challenges associated with implementation.

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Introduction

The Global Drug Facility (GDF) for tuberculosis (TB) was launched on World TB Day 2001; it grew out of a declaration made a year earlier by countries attending the Ministerial Conference on TB and Sustainable Development in Amsterdam. Members of the conference indicated that they desired to "build new international approaches towards ensuring universal access to, and efficient national systems of procurement and distribution of anti-TB drugs".¹ The Global Drug Facility is housed and administered by WHO within the Stop TB Partnership secretariat. It was established with a mandate to:

- ensure uninterrupted access by national TB control programmes to high-quality anti-TB drugs for implementation of the DOTS² treatment strategy (DOTS is a core component of the Stop TB Strategy and WHO's recommended strategy for controlling TB);
- catalyse rapid expansion of the DOTS strategy to achieve WHO's global targets for TB control;

- stimulate political and public support in countries worldwide for public funding of anti-TB drug supplies; and
- secure sustainable global control and eventual elimination of the disease.

The GDF is fulfilling its mandate by using a bundled model comprising three services, each tailored to the needs of national TB control programmes in gaining access to anti-TB drugs (Table 1). The model is unique and innovative, setting the GDF apart from traditional procurement mechanisms, as it:

- links demand to supply and post-delivery monitoring and evaluation;
- ensures that any grants made by the GDF are given in addition to already existing resources;
- outsources competitively all services to collaborative and contractual partners who have demonstrated a technical and/or financial advantage in a specific competency;
- uses product standardization and packaging to simplify drug management;

- links grants to the performance of anti-TB programmes; and
- combines international public sector policy and practice with cutting-edge private-sector technologies and operating procedures to ensure efficiency.

Achievements

Impact of grants and procurement services

Patients' treatments

Through its Grant Services and Direct Procurement Services, the GDF has provided 9 million life-saving anti-TB drug treatments in 78 countries (Annex 1 and Annex 2, available at <http://www.who.int/bulletin>). The GDF's anti-TB drug supplies reach approximately 20% of the estimated 8.8 million TB patients worldwide in 15 of the 22 countries considered to have a high burden of TB; these countries account for 80% of the global TB burden. The cumulative number of treatments supplied to cover the shortfalls in drug supply in national TB programmes is large. The GDF plans to go further, however, and measure the extent of its success in supplying treat-

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Table 1. Challenges in providing access to anti-tuberculosis (anti-TB) drugs and tailored responses of the Global Drug Facility

Challenge	Global Drug Facility's response
Lack of financial resources for anti-TB drugs	A Grant Service was implemented whereby anti-TB drugs are given freely to eligible and approved countries that are dependent on donors to meet their need for these drugs
Inefficient procurement systems	A Direct Procurement Service was developed to aid governments, donors and nongovernmental organizations in purchasing drugs in countries that have sufficient finances but lack adequate procurement capacity; this service includes a quality assurance system
Inadequate quality assurance procedures Non-specific international recommendations and non-adherence to international recommendations Lack of standardization of anti-TB drugs available Inadequate in-country management and monitoring of drug distribution and use.	The GDF's Technical Support Service combines Grant and Direct Procurement Services with technical assistance for: <ul style="list-style-type: none"> • in-country management and monitoring of anti-TB drugs • support in global efforts to improve the quality of anti-TB drugs, primarily via WHO's prequalification programme

ments. After six years of operation, the GDF's impact can be assessed in terms of the number of patients treated or cured and how much progress has been made towards the global targets for TB control set by the World Health Assembly in 1991. Implementing this type of impact assessment will be crucial in providing the epidemiological evidence necessary to confirm that the GDF is one of the most cost-effective and efficient channels for helping to control TB.

DOTS expansion

The GDF's catalytic role in expanding the DOTS strategy has been documented in an earlier publication.³ Nonetheless, it is important to emphasize that challenges to DOTS implementation in different regions and countries have meant that the GDF has had a variable impact overall (Table 2).

Competition and cost-effectiveness

After its launch, GDF has secured competitive prices for high-quality anti-TB drugs through the use of international tendering mechanisms, pooled demand and systematized forecasting. The GDF's prices for anti-TB drugs were, on average, one-third less than previous international tenders.⁴ The GDF is able to offer a six-month course of treatment for a newly diagnosed smear-positive patient for approximately US\$ 20; thus the GDF remains competitive. Moreover, by publishing its prices in the public domain, the GDF builds transparency and global awareness of the pricing of anti-TB drugs.

However, the GDF's yardstick for competitiveness does not measure only

price: the efficiency and effectiveness of services delivered to countries is paramount. The GDF relies on a lean operational team and many functions are outsourced to agents. During the past five years, the GDF's operational turnover consistently has seen more than 80% of funds from donors spent on drugs and related costs, and less than 5% on staffing. Table 3 (available at <http://www.who.int/bulletin>) illustrates the confidence that donors have regarding the GDF providing value for money.

The GDF does not sacrifice quality for efficiency; it uses an internal quality management system that complies with standards set by the International Organization for Standardization for the "provision of quality-assured anti-TB drugs and related services to eligible national TB control programmes".⁵ State-of-the-art information systems are used to maintain strict controls and monitor work. The GDF regularly reports on key indicators of performance and impact through its public web site (<http://www.stoptb.org/gdf>) and annual reports.

Equity of access

The GDF has promoted access to treatment for underprivileged communities by restricting its grants to countries where the annual per capita gross national income (GNI) is < US\$ 3000 (and priority is given to countries with a per capita GNI < US\$ 1000). The GDF also requires that all drugs it supplies are provided free of charge to ensure that poor patients have access to treatment. This approach is inherently equitable, since countries of all sizes that use the Direct Procurement Service benefit from the same prices and range of services.

A model for other diseases

The GDF has developed a model that has proven to be replicable for other diseases. The model has been emulated by the International Union Against Tuberculosis and Lung Disease in its Asthma Drug Facility (<http://www.globaladf.org>). The interim secretariat of the Global Fund to Fight AIDS, Tuberculosis and Malaria (the Global Fund, <http://www.theglobalfund.org/>) borrowed key elements from the GDF and the Stop TB Partnership to inform its initial and current structure; some of these elements are found in its Technical Review Panel and Board. In September 2006, UNITAID (<http://www.unitaid.eu>) was established as an international drug-purchasing facility with a mandate to accelerate access to high-quality drugs and diagnostics for patients with HIV/AIDS, malaria and TB in countries that have a high burden of these diseases; key elements of the GDF's and the Stop TB Partnership's models were adopted to frame its interim operations and inform its set-up. Other important achievements, such as standardization of product supply and simplification of drug management, have been reported by different authors⁶ and are not covered here.

Having outlined the key achievements of the GDF's Grant Services and Direct Procurement Services, it is important to highlight some of their drawbacks. One fundamental disadvantage of offering grants for free drugs to countries is that it is an unsustainable mechanism and does not promote long-term self-sufficiency within a country. The GDF is aware of the dangers of creating dependency. From the outset the

GDF was envisioned as a time-limited programme, and the terms and conditions of its grants to countries require that the GDF's drugs are used in addition to existing budgets or mandates for TB control.⁷ In most of the countries supported by the GDF this conditionality has worked, with budget lines either maintained or (in some cases) increased, as assessed through regular monitoring of programme financing.⁸

Yet many countries have not created a specific budget line for anti-TB drugs, or have failed to spend budgeted monies. Despite the GDF's strict requirements, in some cases budget lines for anti-TB drugs have been reduced or substituted (Table 4, available at <http://www.who.int/bulletin>). The GDF routinely encourages grant recipients to use the procurement service as a cost-sharing exercise, typically with part of their needs covered by the GDF's in-kind donations and the remainder financed by the countries themselves. A key limitation of the procurement service, however, is that many of the countries that buy anti-TB drugs through the GDF do so by engaging in donor substitution – that is, transitioning from the GDF's grant to a new donor's funds, rather than by establishing and using more sustainable national resources.

Technical support service: strengthening health-system capacity and drug quality *Building capacity to manage drug supplies*

Shortages of anti-TB drugs frequently result from insufficient capacities within a country to plan, fund, procure or manage its drug supply. The GDF has successfully used a holistic approach to address immediate gaps in drug supply, while helping countries to overcome systemic problems and establish the long-term drug-management capacity needed by national TB control programmes.

Since 2001, the GDF has sent more than 200 teams of drug management and TB experts to various countries. Mission teams monitor the use of existing drug supplies while working with national programmes to address bottlenecks and weaknesses in their supply chains and help programmes plan for their future drug needs. The GDF also organizes workshops to provide training for national programme staff involved in the procurement and management of anti-

Table 2. Examples of the Global Drug Facility's impact on expansion of the DOTS strategy

Impact of the Global Drug Facility	Examples
Transformative	In the Republic of Moldova and the Democratic Republic of the Congo, the GDF has helped catalyse political commitment, encouraging expansion of each country's plans to implement DOTS treatment. In addition, partners mobilized financial and non-financial support to complement the GDF's efforts
Facilitative	In Kenya, programmes have filled gaps in drug access through the Grant Service and stimulated organization of government resources to ensure complete and sustainable financing for anti-TB drug supplies
Supportive	In Somalia and southern Sudan, the GDF's interventions have addressed some of each country's drug needs, but have had limited influence on other aspects of DOTS expansion due to political and infrastructural obstacles

TB drugs. Workshops on pharmaceutical management provide in-country staff with basic skills that may also help them better manage medicines and supplies for other disease-control programmes (such as HIV/AIDS and malaria). Additionally, the workshops also focus on training national stakeholders to prepare procurement plans for submission to international financing mechanisms, such as the Global Fund.

Strengthening quality assurance

Technical support offered by the GDF extends to strengthening the quality assurance process for anti-TB drugs. From 2002 to 2006, the GDF provided funding and technical input to WHO's prequalification programme for anti-TB drugs. The GDF requires that all the anti-TB drugs that it supplies either be prequalified under the WHO programme or approved for supply through a transparent, independent expert committee convened by WHO pending prequalification. All batches of drugs supplied by the GDF are quality controlled by independent inspection agents and laboratories. The GDF has technically and financially supported workshops designed to help drug manufacturers improve the quality of their products in order to meet standards required to supply anti-TB drugs more safely and enable them to reach wider markets.

It is difficult to measure the number of lives saved by the GDF's emphasis on quality assurance. The importance of this emphasis is unequivocal, however, when measured against overall statistics: countries in Africa and parts of Asia and Latin America (where regulatory and legal

oversight is weakest) have areas where more than 30% of medicines on sale may be counterfeit or substandard.⁹

The GDF's provision of these deliverables has shortcomings. Despite its best efforts, it has not always effectively coordinated its technical support missions with other partners and stakeholders (such as the Global Fund or the Tuberculosis Coalition for Technical Assistance); this may place burdens on national TB programmes and increase transaction costs through duplication of effort. Moreover, the GDF's interventions to support drug management could more effectively strengthen national procurement and supply management systems if they were integrated into a systemic approach rather than a vertical one – for example, if they were coordinated with efforts to control HIV and malaria. As for the progress of prequalification for anti-TB drugs, much work also remains to be done. After five years, only 4 of the 22 targeted first-line adult and paediatric anti-TB drugs and second-line anti-TB drugs have been prequalified under WHO's programme.

Future goals and strategies

In 2006, the GDF completed its strategic plan for the next five years of operation (2006–2010). The plan sets out targets for providing new products, developing manufacturing capacity and diversifying competition in national, regional and global anti-TB drug markets, and describes the GDF's role in ensuring the sustainability of the anti-TB drug supply. Naturally, the GDF will need to build upon its previous achievements to

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implement its plan successfully, but it also faces several challenges and obstacles associated with its interventions.

Expanded product catalogue

In addition to continuing to provide first-line treatments – a projected additional 15 million first-line treatments will be provided from 2006 to 2015 – the GDF will expand its catalogue to include second-line and paediatric drugs as well as diagnostic kits.

Second-line drugs

In 2006, the GDF converged with the Green Light Committee (GLC) – part of the Stop TB Partnership – thereby incorporating the procurement of second-line anti-TB drugs for committee-approved programmes into its established procurement systems. The committee is a unique mechanism that ensures that programmes to treat multidrug-resistant TB (MDR-TB) in low-income countries are of high quality and that access to concessionally priced second-line drugs is secured; this mechanism maximizes the use of resources and saves, on average, US\$ 17 000 per patient treated when compared with commercial prices. Since only 2% of the estimated annual number of patients with MDR-TB receive committee-approved treatments, the GLC must increase access to and promote rational use of second-line drugs. UNITAID has adopted MDR-TB as a priority funding niche for 2007 and has named the GDF and the committee as lead grant recipients for second-line TB drugs.

Drugs for children

The GDF added paediatric anti-TB drugs to its catalogue in 2006. Historically, controlling TB in children has been only a footnote to TB control programmes. In keeping with the Stop TB Strategy's goal of ensuring equitable access to care for all TB patients "infectious and non-infectious, adults and children, with and without HIV, with and without drug-resistant TB," the GDF will leverage the same strengths of its bundled model to develop a market to supply high-quality, appropriately formulated and affordable anti-TB drugs for children. UNITAID's financial support is vital to this endeavour.

Diagnostics kits

Diagnostics kits are designed to ensure that all the products that a programme needs to prepare, perform and analyse smears are available when needed and work effectively. The GDF's kits will be quality assured and include built-in safeguards (such as back-up battery packs for electric microscopes) to increase their effectiveness in areas with poor infrastructure. While the kits do not represent a new tool for diagnosing TB, they are expected to serve as an effective interim measure to improve case finding until rapid diagnostic tools are available.

New anti-TB drugs

Although the first new anti-TB drug in 40 years is not expected to be available until 2010, the GDF is working within the Stop TB Partnership's Retooling Task

Force¹⁰ to prepare for rapid adoption and implementation of new drugs (and diagnostics) at the global and national levels.

Manufacturing capacity

Key challenges that the GDF will face in meeting its projected targets for supplying first-line adult and paediatric anti-TB drugs and second-line anti-TB drugs relate to the prequalification of products and the capacity to produce the active pharmaceutical ingredients that these products require. The GDF's Business Advisory Committee, created in December 2006, will provide guidance towards keeping TB's prequalification priorities on the agenda amid competing demands to prequalify other essential medicines.

When a larger number of prequalified products are available from a wider geographical spectrum of manufacturers, the Business Advisory Committee will also help the GDF define strategies for supporting diversification of the drug supply through the use of regional tenders. Incentives will be necessary to stimulate development of anti-TB drug manufacturing industries in countries like China and South Africa, and to increase competition and capacity.

The creation of sufficient capacity to manufacture existing anti-TB drugs is critical to ensuring secure supplies until more effective drugs are developed. Only a few manufacturers produce the active pharmaceutical ingredients or intermediates for existing first-line drugs. For example, just one company dominates the supply of active pharmaceutical ingredients for rifampicin (Lupin Limited, India) and one company dominates the supply of a key intermediate for ethambutol (Dow Chemical, USA). Acting in collaboration with other key stakeholders such as the Global Fund, the GDF will stimulate development of additional sources of active pharmaceutical ingredients and secure increased and guaranteed production commitments from manufacturers. Table 5 highlights important areas of collaboration between the GDF and the Global Fund upon which further joint efforts can be built.

Promoting sustainability of the drug supply

In 2005, the GDF launched its strategy known as "Sustaining the gains",⁷ which recognized that although financial self-sufficiency of countries must be the

Table 5. Areas of collaboration between the Global Drug Facility and the Global Fund to Fight AIDS, Tuberculosis and Malaria, 2004–2006

Year	Area of collaboration
2004–2006	17 principal recipients of funding from Global Fund used the GDF's Direct Procurement Service to obtain high-quality, affordable anti-TB drugs
2006	Technical support was provided by GDF to the Global Fund Secretariat during the competitive selection process for independent third parties conducting sampling and/or testing of pharmaceutical products procured according to the Global Fund's quality assurance policies
2006	Following convergence with the Green Light Committee (part of the Stop TB Partnership), the GDF became the mandated procurement mechanism for use in procuring second-line anti-TB drugs to treat multidrug-resistant TB for all supplies funded by the Global Fund
2005	Conclusion of memorandum of understanding regarding cooperation between the Global Partnership to Stop TB and the Global Fund (19 May 2005)
2005–2006	Technical support was provided for development of new Global Fund quality assurance policy for procurement of single-source and limited-source anti-TB drugs

ultimate goal, providing sustainable financing for TB control is a more realistic short-term goal. Sustainable financing, as defined by the GDF, refers to a country's ability to mobilize and use efficiently both governmental and supplementary external resources to achieve TB control targets. The strategy suggests that the GDF should not phase out its help to a country if the gains secured via its grants, direct procurement or technical support services will be lost. At the same time, it requires the GDF to use its grants to leverage increased political commitment towards building a more sustainable supply of anti-TB drugs. The GDF aims to strengthen this aspect of its strategy by seeking to ensure that countries take on progressively more responsibility for financing their supply of anti-TB drugs, perhaps by using a model similar to the financial sustainability model developed by the GAVI Alliance (formerly the Global Alliance for Vaccines and Immunization).¹¹

Whatever approach is taken, it is not taken in a vacuum. The Global Drug Fa-

cility, the Global Fund, the World Bank, bilateral aid organizations, UNITAID and other entities that support countries' TB control efforts with in-kind or monetary contributions to aid access to anti-TB drugs will need to pursue "additionality" and collaborate closely to avoid duplication or donor substitution.

Conclusion

As the Global Drug Facility looks towards the implementation of its strategic plan, its record has laid a solid foundation on which progress can be based and evolution take place in the face of the challenges posed by ensuring access to anti-TB drugs. When the GDF's blueprint⁶ was written in 2000, it projected that the GDF would provide drugs to approximately 10 million patients during its first five years, possibly serve as a model for improving the management of other diseases, strengthen health systems working to control TB and contribute to sustaining improvements made in the global capacity to control TB. It

has made significant progress towards realizing these goals, but much work remains to be done. With an innovative Global Plan, assistance from the Stop TB Partnership, and new partners such as the Global Fund and UNITAID, the landscape is rich with potential for gains in the fight against TB. ■

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Résumé

Le dispositif mondial d'approvisionnement en médicaments antituberculeux : une approche unique, globale et novatrice pour l'acquisition et la gestion de médicaments

En janvier 2006, le Partenariat Halte à la tuberculose a lancé le Plan mondial Halte à la tuberculose 2006-2015, qui expose les interventions et les ressources nécessaires pour réduire l'incidence et la prévalence de la tuberculose (TB), ainsi que le nombre de décès qui lui sont imputables. L'un des objectifs fondamentaux de ce plan mondial est d'élargir l'accès équitable à des médicaments antituberculeux et à des outils diagnostics peu onéreux. Pour parvenir à cette fin, le Partenariat a mis au point un outil essentiel : le dispositif mondial d'approvisionnement en médicaments antituberculeux (GDF).

Le présent article met en lumière la nature unique, globale et innovante de cette approche pour l'acquisition et la gestion de médicaments en analysant ses principales réalisations. L'une d'elles a consisté à fournir 9 millions de patients-traitement à 78 pays au cours de ses 6 premières années de fonctionnement. Le GDF a

reconnu que la fourniture de médicaments antituberculeux gratuits ou à un prix abordable ne suffisait ni à amener les Gouvernements à améliorer la qualité et les taux de couverture de leurs programmes, ni à garantir un accès étendu et une large utilisation de ces médicaments en présence de systèmes d'approvisionnement des médicaments peu performants, d'obstacles réglementaires ou de systèmes de distribution et de stockage non fiables. Cet article montre également ainsi comment le GDF a contribué à l'amélioration durable des capacités de pays du monde entier à gérer correctement leurs antituberculeux. Il évalue également certaines des limites, des insuffisances et des risques associés à ce modèle. Il conclut par une analyse des stratégies et des plans principaux du GDF pour l'avenir, ainsi que des difficultés que rencontrera leur mise en œuvre.

Resumen

El Servicio Farmacéutico Mundial, un mecanismo singular, holístico e innovador para la adquisición y gestión de medicamentos

En enero de 2006, la Alianza Alto a la Tuberculosis lanzó el Plan Mundial para Detener la Tuberculosis 2006-2015, en el que se describen las iniciativas y los recursos necesarios para reducir la incidencia y prevalencia de tuberculosis y la mortalidad por esa causa. Un objetivo fundamental del Plan Mundial es expandir el acceso equitativo a medicamentos y medios diagnósticos antituberculosos asequibles de calidad, y un instrumento primordial

desarrollado por la Alianza Alto a la Tuberculosis con ese fin es el Servicio Farmacéutico Mundial (GDF).

Este artículo muestra el enfoque singular, holístico e innovador aplicado por GDF a la adquisición y gestión de los medicamentos, analizando los principales logros del sistema. Uno de ellos ha sido el de proporcionar 9 millones de tratamientos-paciente a 78 países en sus seis primeros años de funcionamiento.

GDF reconoció que los incentivos en forma de medicamentos antituberculosos gratuitos o asequibles no son suficientes para inducir a los gobiernos a mejorar el nivel y la cobertura de sus programas, ni tampoco para garantizar un amplio acceso al tratamiento farmacológico, y una amplia utilización del mismo, en los casos de precariedad de los sistemas de adquisición, existencia de trabas normativas o escasa fiabilidad de los sistemas de distribución y almacenamiento. Así, en el artículo se muestra

también cómo ha contribuido GDF al logro de mejoras sostenidas de la capacidad de muchos países para gestionar adecuadamente sus medicamentos antituberculosos. Se evalúan asimismo algunas de las limitaciones, las deficiencias y los riesgos asociados al modelo. El artículo concluye con un examen de los principales planes y estrategias de GDF con miras al futuro y de los retos que conlleva su implementación.

ملخص

المرفق الدوائي العالمي: أسلوب فريد وشمولي ورائد لشراء الأدوية وإدارتها

التي تُقدِّم على شكل أدوية مضادة للسِّل مجانية أو بأسعار يمكن تحمُّلها لا تكفي لحث الحكومات على تحسين المعايير والتغطية في برامجها، وأن تقديم الأدوية المجانية أو بأسعار يمكن تحمُّلها لا يضمن إتاحتها واستعمالها على نطاق واسع، وأن المعالجة الدوائية للحالات تواجهها نُظُم الشراء الضعيفة، والتشريعات المعيقة، ونُظُم للتوزيع والتخزين لا يمكن الوثوق بها والتعويل عليها. ومن هنا فإن هذه الورقة توضِّح كيف يمكن للمرفق الدوائي العالمي أن يساهم في تحقيق التحسين المستمر في قدرة البلدان في جميع أنحاء العالم على الإدارة الرشيدة لما لديهم من أدوية مضادة للسِّل. كما تقيِّم هذه الورقة بعض المحدِّدات والعوائق والأخطار إلى ترافق هذا النموذج. وتخلص الورقة إلى تفحص الخطط والاستراتيجيات الرئيسية للمرفق الدوائي العالمي في المستقبل والتحدِّيات المصاحبة لتنفيذها.

في شهر كانون الثاني/يناير عام 2006، أطلقت الشراكة من أجل دحر السِّل الخطة العالمية لدحر السِّل 2006 – 2015، ووُصِّفَتْ فيها الأنشطة والموارد اللازمة لإنقاذ معدلات حدوث السِّل وانتشاره ووفياته. وقد تمثَّل الهدف الأساسي للخطة العالمية بتوسيع مدى الإتاحة العادلة للأدوية والمواد التشخيصية الخاصة بالسِّل والتي تتسم بجودة رفيعة وبأسعار يمكن تحمُّلها. ويُعدُّ المرفق الدوائي العالمي من الأدوات الرئيسية التي طُوِّرت الشراكة من أجل دحر السِّل.

وتوضِّح هذه الورقة أن المرفق الدوائي العالمي أسلوب فريد وشمولي ورائد لشراء الأدوية وإدارتها، وذلك بتحليل الإنجازات الرئيسية له. ومن بين هذه الإنجازات تقديم العلاجات لتسعة ملايين مريض يعيشون في 78 بلداً خلال السنوات الست من عمله. وقد أدرك المرفق الدوائي العالمي أن الحوافز

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Table 3. Contributors to the Global Drug Facility (including donations of cash and contributions in-kind), 2001–2006

Contributor	Year and amount ^a						Total
	2001	2002	2003	2004	2005	2006	
Canadian International Development Agency	9 944	3 723	8 530	11 347	20 643	22 862	77 049
Government of Japan			46				46
Government of Norway			748	810	743	899	3 200
Government of the Netherlands	4 041	1 959	2 587	194			8 781
Harvard Medical School			130				130
Management Sciences for Health (contributions in-kind) ^b		137	188	188	188	141	842
Novartis Foundation (contributions in-kind)					2 605	3 226	5 831
Open Society Institute			250				250
Procter & Gamble (contributions in-kind)			25				25
Research Institute of Tuberculosis, Japan (contributions in-kind)		21					21
UNITAID ^c						5 665	5 665
United Kingdom Department for International Development			595			11 962	12 557
United States Agency for International Development	1 250	2 000	3 000	3 000	4 700	5 000	18 950
World Bank		250	250				500
Total	15 235	8 091	16 349	15 539	28 879	49 755	133 847

^a Amounts are given in thousands of US\$.

^b Examples of in-kind donations include contributions of staff time for consultancies and contributions of anti-TB drugs.

^c Funds from UNITAID for paediatric anti-TB drugs were agreed upon in 2006 but disbursed in 2007.

Table 4. The Global Drug Facility's impact on budget lines for tuberculosis (TB) control, by year

Monitoring period	% of countries maintaining or increasing government expenditure on TB control during support cycle ^a
1 July–31 December 2003	62
1 January–30 June 2004	88
1 July–31 December 2004	100
1 January–30 June 2005	81
1 July–31 December 2005	93

^a The percentage is based on the number of countries that received grants and were monitored by the GDF during the indicated period for which financial data were available. Grant beneficiaries are monitored annually during a 3-year grant cycle.

Annex 1. Details of support provided to 10 countries with a high burden of tuberculosis (TB) by the Stop TB Partnership's Global Drug Facility,^a 2001–2007

Country	Year							No. of treatments accessed through the Global Drug Facility ^b
	2001	2002	2003	2004	2005	2006	2007	
Bangladesh								
DOTS cases (notifications) ^c	63 753	71 637	88 156	98 234	123 118	132 578	147 110	414 087
Treatments via Grant Services ^d	NA	NA	111 400	127 555	NA	52 159	NA	
Treatments via Direct Procurement Services	NA	NA	NA	22 500	27 283	57 190	16 000	
Democratic Republic of the Congo								
DOTS cases (notifications)	66 748	70 625	84 687	93 336	97 075	107 504	115 840	447 235
Treatments via Grant Services	NA	140 726	70 256	NA	122 656	113 597	NA	
Treatments via Direct Procurement Services	NA	NA	NA	NA	NA	NA	NA	
India								
DOTS cases (notifications)	409 049	549 700	836 768	1 053 364	1 146 599	1 392 725	1 590 602	3 168 826
Treatments via Grant Services	NA	NA	365 421	506 205	525 000	892 820	NA	
Treatments via Direct Procurement Services	NA	NA	NA	NA	648 220	NA	231 160	
Indonesia								
DOTS cases (notifications)	92 792	155 188	178 260	210 229	254 601	291 812	329 678	567 227
Treatments via Grant Services	NA	NA	155 046	NA	NA	NA	NA	
Treatments via Direct Procurement Services	NA	NA	NA	NA	150 000	162 181	100 000	
Kenya								
DOTS cases (notifications)	73 017	80 183	91 522	100 573	102 680	113 510	121 481	290 587
Treatments via Grant Services	NA	18 501	18 669	42 470	183 947	27 000	NA	
Treatments via Direct Procurement Services	NA	NA	NA	NA	NA	NA	NA	
Myanmar								
DOTS cases (notifications)	41 432	57 012	75 744	96 662	107 009	126 813	143 893	407 411
Treatments via Grant Services	9 900	NA	88 167	262 805	NA	46 539	NA	
Treatments via Direct Procurement Services	NA	NA	NA	NA	NA	NA	NA	
Nigeria								
DOTS cases (notifications)	29 560	29 645	44 184	57 246	62 598	76 399	85 606	334 772
Treatments via Grant Services	NA	65 091	NA	89 579	131 887	NA	13 132	
Treatments via Direct Procurement Services	NA	NA	NA	7 025	23 558	4 500	NA	
Pakistan								
DOTS cases (notifications)	17 333	47 754	73 100	101 562	137 574	163 752	193 181	476 121
Treatments via Grant Services	NA	88 032	88 032	NA	47 650	252 407	NA	
Treatments via Direct Procurement Services	NA	NA	NA	NA	NA	NA	NA	

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(Annex 1, cont.)

Country	Year							No. of treatments accessed through the Global Drug Facility ^b
	2001	2002	2003	2004	2005	2006	2007	
Philippines								
DOTS cases (notifications)	107 133	118 408	134 375	130 530	137 100	147 126	154 332	616 761
Treatments via Grant Services	NA	NA	79 051	NA	NA	10 000	NA	
Treatments via Direct Procurement Services	NA	NA	NA	340 000	NA	170 800	16 910	
Uganda								
DOTS cases (notifications)	36 829	40 695	41 805	43 721	41 040	44 252	45 397	145 216
Treatments via Grant Services	NA	50 453	NA	NA	7 045	81 918	NA	
Treatments via Direct Procurement Services	NA	NA	NA	NA	NA	5 800	NA	
Total number of treatments supplied								6 868 243

NA, not available.

^a These 10 countries are among the 22 high-burden countries that account for 80% of the global burden of TB.

^b Totals include "buffer stock" supplied to protect against shortages.

^c Source: World Health Organization. *Global tuberculosis control: surveillance, planning, financing. WHO Reports 2001–2007*. Geneva: WHO; 2007. "DOTS cases (notifications)" refers to all new or relapsed patients in whom TB has been confirmed bacteriologically or diagnosed by a clinician and who were notified by the national TB programme and considered to be living in areas where health services have adopted DOTS (a core component of the Stop TB Strategy). Figures for 2006–2007 are Global Drug Facility estimates generated through linear regression forecasting.

^d Source: Global Drug Facility database. A blue cell indicates the year when GDF drugs arrived in country. A yellow cell indicates a year that bridges two years of GDF supply.

Annex 2. **78 countries that received anti-tuberculous drugs through the Stop TB Partnership's Global Drug Facility, 2001–2007^a**

1. Afghanistan	26. Ethiopia	51. Myanmar
2. Albania	27. Gabon	52. Namibia
3. Angola	28. Gambia	53. Nepal
4. Armenia	29. Georgia	54. Niger
5. Azerbaijan	30. Ghana	55. Nigeria
6. Bangladesh	31. Guinea	56. Pakistan
7. Benin	32. Guyana	57. Papua New Guinea
8. Bolivia	33. Haiti	58. Philippines
9. Bosnia and Herzegovina	34. India	59. Republic of Moldova
10. Burkina Faso	35. Indonesia	60. Rwanda
11. Burundi	36. Iraq	61. Sao Tome and Principe
12. Cambodia	37. Kenya	62. Serbia
13. Cameroon	38. Kyrgyzstan	63. Sierra Leone
14. Cape Verde	39. Lao People's Democratic Republic	64. Somalia
15. Central African Republic	40. Lebanon	65. Sri Lanka
16. Chad	41. Lesotho	66. Sudan
17. Congo	42. Liberia	67. Syrian Arab Republic
18. Côte d'Ivoire	43. Madagascar	68. Tajikistan
19. Democratic People's Republic of Korea	44. Malawi	69. The former Yugoslav Republic of Macedonia
20. Democratic Republic of the Congo	45. Maldives	70. Timor-Leste
21. Djibouti	46. Mali	71. Togo
22. Dominican Republic	47. Mauritania	72. Turkmenistan
23. Egypt	48. Micronesia, Federated States of	73. Uganda
24. Equatorial Guinea	49. Mongolia	74. Ukraine
25. Eritrea	50. Mozambique	75. United Republic of Tanzania
		76. Uzbekistan
		77. Yemen
		78. Zambia

^a The 15 countries highlighted in bold are among the 22 high-burden countries that account for 80% of the global burden of TB; 10 of these 15 countries are profiled in more detail in Annex 1.