Scientific advances have resulted in a vast array of drugs and health technologies to prevent or treat diseases. One of WHO’s roles is to advise and support countries in the provision of these drugs and technologies. When Dr Vladimir Lepakhin became Assistant Director-General for the Health Technology and Pharmaceuticals cluster of departments in 2003, the debate centred on access and affordability. But as the number of new health products grows, WHO is focusing more than ever on their quality and safety.

Q: What is the role of your cluster of departments?
A: Our main task is to help countries achieve a supply of medicines and health technologies that are affordable, high quality, safe and efficacious. At the same time we assist countries to ensure that these medicines and technologies are used appropriately. Until recently, we spoke mainly about access and affordability. Now we have started to pay more attention to quality and safety. Medicines are a doubled-edged sword, they can save lives but they can also kill. According to scientific publications, in the United States alone 100,000–200,000 people die every year due to drug-related complications.

Q: Why do so many people suffer or die from taking medicines?
A: There are several reasons. There are many substandard and counterfeit medicines on the market. Another problem is that many new drugs are highly potent. The more biological activity, the greater the chances of more effective treatment but also of more serious adverse reactions. At the same time, pre-marketing evaluation of drugs is not enough to discover all possible adverse drug reactions. This is why more and more products are withdrawn.

Q: Everyone talks about Vioxx, but this is not the only example. Some drugs are withdrawn after 1–5 years on the market, sometimes after 10–20 years.

Q: How do you decide which company’s products get on the essential medicines list?
A: Products are not decided by company but evaluated on the basis of efficacy, safety, quality and affordability. This list provides suggestions. It’s up to countries to decide what to include on their lists. Some developing countries with little regulatory capacity adopt the whole list, others adapt it to their health priorities.

Q: Why did WHO establish a prequalification list of products?
A: We realized that many products on the pharmaceuticals market are substandard. We compile this list for UN agencies to purchase drugs mainly for HIV/AIDS, tuberculosis and malaria treatments that meet unified standards of quality, safety and efficacy. When we started in 2001 we were criticized. Critics said it was not in the WHO constitution or required by a World Health Assembly resolution and that WHO was not a drug agency. But experience has proved we were right. Only 1 in 5 products submitted to us pass our pre-qualification scrutiny and are included on the list. We evaluate products, manufacturing sites and clinical studies. An important part of this work is training people from drug regulatory authorities in developing countries to do this evaluation themselves.

Q: Why is WHO concerned about “irrational” use of drugs?
A: About half of all drug-related problems are due to irrational use. This can start at any stage from prescription by the doctor or advice from a pharmacist to use by patients. Self-medication is very common, practically all families use drugs by themselves. We have a programme to monitor drug-related complications. More than 80 countries have joined it and their national centres have helped us compile a database of more than three million reports of adverse reactions.

Q: Flexibilities introduced into the TRIPS (Trade-Related Aspects of Intellectual Property Rights) agreement have made medicines potentially more accessible, but are countries making full use of these?
A: So far very few countries — only Indonesia, Malaysia, Mozambique and Zambia — are using these flexibilities. The idea was good, but its effectiveness will be tested in practice. Many countries do not understand these flexibilities and that’s why we have a special project to advise and show them how to use these. It’s just the beginning.

Q: Are patents a barrier to improving access to essential medicines?
A: Patents are needed because it is complicated and costly to develop new medicines. We need innovative products because there is no effective treatment
for some diseases and more and more cases of drug resistance. Patent and price are not the only barriers in improving access. Lack of public health insurance forces people to pay for medicines themselves. Supply and delivery problems also lead to drug shortages.

Q: What challenges do we face with health technologies? A: Health technologies cover a diverse area: blood transfusion and safety, medical equipment, diagnostics, surgery, anaesthesia, organ transplantation and so on. WHO has much experience in blood safety, but started working on transplantation recently. Here we advise governments on the technical aspects as well as the ethical concerns relating to organ donation, transplantation and trafficking.

Q: What is WHO doing to stop the sale of counterfeit medicines? A: The quality of products on the market in each country is the responsibility of national drug regulatory bodies. We assist and support countries to strengthen their pharmaceutical legislation, drug standards and requirements, national drug regulatory performance at all stages: from production, distribution and sales to their use. Quality assurance should be built into the entire process. We have prepared guidelines for countries on distribution and laboratory services. We give workshops in Africa and Asia and have produced 20 training modules on CD-Rom in English, Chinese, Japanese and Spanish.

Q: What is WHO's view of traditional and alternative medicines? A: Traditional medicines have been used in all countries, some for centuries. Self-medication with herbal medicines is popular both in developed and developing countries. In some countries, traditional medicine comprises up to 80% of primary health care. Sometimes traditional medicines are the only ones people can afford. Unlike modern medicines, these were often not studied in accordance with today's scientific requirements. But without good study and information this can be dangerous, for example, when they interact with other medicines that people may be taking. That's why it is WHO's responsibility to evaluate these products and limit any damage by providing reliable information and expertise.

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Q: Are generic medicines less safe or efficient than patented medicines? A: Many generic medicines meet all requirements, which means they're equivalent to the patented originals, but others do not. The generics industry is highly developed in both industrialized and in some developing countries.

Q: What are the common misconceptions about your work at WHO? A: Some people think WHO is a supranational organization that creates and imposes norms and standards. WHO is an international organization, not a regulatory authority. Our role is to combine knowledge, skills and expertise to create international norms and standards and to assist countries in their implementation by providing information, training and capacity building.

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Call for papers
The Bulletin of the World Health Organization is seeking papers for a projected special issue on Knowledge Translation in Global Health to be published in the second half of 2006. We are interested in Policy and Practice papers that report on an analysis of lessons learned from successful experiences related to the following issues: how knowledge generated through research or practice was contextualized to effectively inform decision- and policy-making; strategies for effective interactions as well as barriers between producers and users of knowledge; how an effective public health programme was scaled up; and/or what constituted best available evidence for decision- and policy makers under your circumstances. We will also consider relevant submissions on this topic to the Perspectives and Round Table sections of the Bulletin. Manuscripts should be submitted to http://submit.bwho.org by 1 November 2005, respecting the Guidelines for Contributors, and accompanied with a cover letter mentioning this call for papers.