

What's Your Opinion?

2005 — A LOOK AHEAD

What are the most significant business challenges you believe the industry will face in 2005?

A changing reimbursement landscape



In the upcoming year, the repercussions of the Medicare Modernization Act of 2003 (MMA) will impact the pharmaceutical industry on multiple fronts. Changes in reimbursement for physician-administered medica-

tions (Medicare Part B) will likely impact physician prescribing patterns and site of care decisions. Seniors' responses to, and ongoing impressions of, the Medicare Prescription Drug Benefit (Medicare Part D) have implications for the industry's reputation and the extent to which prescription drugs remain a flashpoint for public opinion. Furthermore, the inclusion of health savings accounts as part of the MMA is likely to fuel ongoing innovations in benefit design for the employer-sponsored insurance market. Without a doubt, the pharmaceutical industry will be facing a changing reimbursement landscape on all fronts.

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compensation, and control systems simultaneously. A basic rule is: "if you want someone to do something, pay 'em." If companies want intracompany/divisional cooperation, reward and evaluation systems must encourage such behavior explicitly. Additionally, team leaders must be empowered to direct individuals from different departments and have input into evaluation and compensation of these individuals. Corporate finance, legal, and other staff functions must be made more accountable to business units and collaborative teams.

CAUWENBERGH. Companies need to bring the product champion from marketing into the later stages of the development and regulatory process of a product and have this champion actively participate in planning and execution of these stages. They need to coordinate the data flow that goes to the public (conferences, and so on) with the regulatory strategy. Companies need to have realistic pricing discussions early on, before creating precedents in one country or another. And, they need to strive for one global core product message to avoid misuse of a drug in one region that could backfire on the global potential of the product.

FREIMAN. Cross-functional teams with some degree of power to drive products forward are absolutely essential. Team leaders must represent the best human capital that a company can provide, regardless of that person's functional area of responsibility.

BOILY. The implementation of global product-development teams that can bring a multidisciplinary approach to the table provides direction to ensure focused investment. The formalized communication process is now occurring at a far earlier stage in the development of a product than ever before. Equally, service providers must be able to provide global insight and services to meet those needs. Balancing U.S. market requirements with those of other parts of the world remains a key objective.

► PATIENT SAFETY

BARRETT. Patient safety is a cornerstone of clinical trials. But with the increasing pace of trials, it's no longer efficient to be reactive; proactive, real-time monitoring can increase the safety of those participating in trials, spotting potential interactions, and flagging common side effects. One of the ways to accomplish these goals is a Web-based solution with proactive notifications. The technology is available to manage this at a global level, so I

think we'll continue to see a better level of patient safety.

BUA. Patient safety in clinical trials is fairly well-moderated and reasonably strong, given local IRB approval processes and patient-informed consent, so only marginal improvements can be made with respect to patient safety in clinical trials. The real focus should be on monitoring patient safety after NDA approval, during Phase IV studies, and prescribing uptakes, especially with respect to off-label use.

HADDOX. Prescription drug abuse is an emerging public-health problem that our industry should be addressing in collaboration with multiple private and public partners. For the first time, this year the President included prescription drug abuse as a key component of the Office of National Drug Control Policy. The abuse of medications, however, goes beyond prescription drugs, as a number of OTC products also are being abused. It is estimated that about one-third of all substance abuse today involves legal pharmaceutical products, often in combination with other licit or illicit substances. One especially vulnerable portion of the population affected by this pervasive, often regionalized problem is young people. Prescription drug abuse can only be solved by a collaborative effort involving law enforcement, schools, parents, community-based organizations, healthcare professionals, social-service agencies, regulatory bodies, and the pharmaceutical industry. Purdue has been working to combat the abuse and diversion of our major opioid analgesic, OxyContin Tablets, since 2000. We elected to get involved and become part of the solution, because we know it's a complex issue that law enforcement alone cannot be expected to handle. There's a lot that the pharmaceutical industry can, and should, do to help fight prescription drug abuse.

FREIMAN. Clearly since Vioxx, the so-called guardians of safety will have their hatchets out and sharpened. I personally don't think much is missing with regard to patient safety, as both the clinicians of industry and reviewing offices of the FDA have high-ethical standards. Perhaps an annual face-to-face follow up meeting on newly approved drugs would be in order to review any safety concerns or just to update both sides.

CAUWENBERGH. When studies are properly conducted, patient safety under today's standards is probably better protected in a study setting than in day-to-day life. I don't see a need for major changes in this aspect in the

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clinical-trial setting. I do see a need to upgrade systems in the commercial arena. Especially worrying to me is the oral OTC market, which I consider a ticking time bomb. Since OTCs often have the same ingredients but are marketed (in combinations) for various indications, it is not uncommon that patients who treat themselves with OTC brands for a cold, stuffed nose, pain, allergy, or sleep disturbances may end up with a massive overdose of one active ingredient. In addition, drug interaction studies with new drugs don't look, and cannot look, at interactions with all of these various combinations.



DR. J. DAVID HADDOX
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ERICKSON. For industry-sponsored clinical trials there are plenty of rules, mechanisms, and liability concerns to try to protect patients. Although new multifactorial diagnostic approaches and *in vitro* toxicology assays can help further. I continue to be concerned about academic trials. We often hear in the media about "profit before patients," but the concern in academic medicine is "papers before patients."

MCNAMARA. An essential part of protecting patient safety is early and proactive monitor-

FOLLOW-ON DRUGS IMPROVE PATIENT SAFETY AND HELP REDUCE COSTS

Follow-on medicines, sometimes referred to as me-too drugs, provide therapeutic advantages over existing treatments and expand the opportunity to treat more patients with improved safety and efficacy at lower cost, according to an analysis recently completed by the Tufts Center for the Study of Drug Development.

The Tufts CSDD study also found that the first drug within a therapeutic class to gain marketing approval in the United States by the Food and Drug Administration (FDA) is not necessarily the best drug within that class.

"Follow-on drugs result from a development race in which only one drug can be the first approval in a new therapeutic class," says Kenneth I. Kaitin, Ph.D., director of Tufts CSDD. "Far from being redundant, follow-on drugs create therapeutic alternatives, which enable physicians to individualize patient treatment."

Dr. Kaitin adds that benefits of incremental innovation are similar to those that occur in other healthcare product categories, such as diagnostics, devices, vaccines, and in R&D for neglected diseases and rare illnesses.

He says follow-on drugs increase product availability from multiple sources, creating competition that results in higher quality medicines at lower cost. For example, Dr. Kaitin says, the current monthly cost of statins launched in 2003 is 45% less than statins

launched in the early 1990s and the cost for ACE inhibitors (antihypertensives) launched in the mid-1990s is 72% less compared with the early 1980s.

"On average, one-third of all follow-on drugs in development receive a priority rating from the FDA, which indicates that they constitute a therapeutic advance over drugs already on the market," Dr. Kaitin says. "This strongly suggests that the first products to reach the pharmacy shelf may not be the safest or most efficacious."

Source: Tufts Center for the Study of Drug Development, Boston. For more information, visit csdd.tufts.edu.

STUDY RESULTS

NEARLY ALL FOLLOW-ON DRUGS FOR CLASSES where the first-in-class drug was approved in the 1990s were synthesized, had initial pharmacologic testing, and were in clinical testing somewhere in the world before the first-in-class drug was approved.

EFFECTIVE MARKET-EXCLUSIVITY PERIOD for first-in-class drugs dropped 78%, from an average of 8.2 years in the 1970s to 1.8 years from 1995 to 1998.

A SUBSTANTIAL NUMBER OF LATE-ENTERING FOLLOW-ON DRUGS had priority ratings. For the classes with four or more follow-on drugs, 48% of the follow-on drugs that received a priority rating were the fourth to market or a later follow-on.

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Tighter FDA scrutiny of new products in development

Regulatory guidelines for approved products are being confused with preapproval nonregulation of scientific information by major pharmaceutical MLR review committees. Big pharma purchasing departments are sacrificing the innovation and quality provided by boutique-service providers for low price and one-stop shopping provided by advertising conglomerates.

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ing of potential issues so that adverse events can be identified, characterized, and diagnosed sooner. In the next year, we will notice a greater emphasis on three key areas: better visibility of trial data; better electronic enablement, which allows for faster processing, analysis, and sharing of data; and more qualitative patient feedback. Statistics are great indicators of many things, but they are not a substitute for a patient's experience.

KOVAC. There are many challenges, such as privacy and confidentiality of genetic and other patient information, ethical issues surrounding the use of genetic information, and information overload because of the need to manage increasing volumes of research data and apply them to the clinical-development process effectively. With only one-third of clinical-trial data stored electronically, it is difficult, if not impossible, to share data during a trial. This scenario leads to duplicate data entry and errors. Scientists and clinicians are then unable to easily review data in areas such as patient safety (for example by data safety monitoring boards). By using EDC and breaking from the tradition of using paper documentation, technology will play a significant role in bringing about the organizational and process changes needed to create and maintain a more streamlined, automated, secure, and integrated clinical process. With technology in place, drugs also will be safer because of a revolutionized supply process, which will result in less counterfeit drugs and problems with expired drugs.

WILSON. The process we use to protect patients in clinical trials already is good and effective. The issue is, what happens to patients after the trials are complete and the product is brought to market? Product safety is an industry issue, and recent product withdrawals are bringing increased scrutiny on the industry from all quarters. And the greatest scrutiny is on the regulatory process before and after product approval. In 2005, I predict that we'll experience increasing pressure to improve postmarketing insights and to enhance our ability to ensure patient safety in the real-world setting. Our current challenge is that the very thing that increases internal validity of a clinical trial may jeopardize the ability to predict its impact postlaunch. We establish very tight inclusion/exclusion criteria to measure efficacy, but those criteria also limit our knowledge of the impact of comorbid conditions and concomitant medications. We need to evaluate products in broad-based, real-world settings where we can measure safety and product value and provide rapid feedback of this information to the manufacturer for improved decision-making and product positioning. I pre-

dict we'll see more such research taking place in the coming year.

W. THOMPSON. Patients are well-protected in trials. Problems occur upon initial marketing, when population information is sparse. Physicians and patients don't perceive that they are part of an extended clinical trial without the protections of the protocol safety features. There should be a three-light regulatory approval: red (not safe for anyone outside a formal trial); green (we know enough for general use); and yellow (patients can get but only with reporting of events and prescribed monitoring). Whether all physicians should be able to prescribe all drugs is another key safety issue.

► REGULATORY

HAMELIN. The departure of Dr. Mark McClellan as commissioner of the FDA is creating a leadership void for the time being. The last time we saw such a void at the FDA, before Dr. McClellan took the position, it took many months to fill the commissioner role and in that time the different divisions within the FDA became very introspective, requiring more clinical trials with significantly more patients in trials thus yielding slower product approvals. We now face the prospect of a slowing down of the FDA again, which has devastating effects on smaller pharmaceutical and biotech companies that are trying to get their first products to market. In addition to the leadership gap at the FDA, there is also the issue of uncertainty about who the next commissioner will be. Dr. McClellan worked aggressively to speed up product review timelines and set clear, strong leadership guidelines for reviewing products as quickly as possible within the bounds of guidelines and safety. If a new commissioner who is not as protechnology were to head up the FDA it would have huge long-term ramifications for the industry.

ASTRUE. Right now, we see the regulatory uncertainties created by the already long wait for a successor to FDA Commissioner Dr. McClellan as the biggest challenge. For example, the initiative to establish standards for follow-on biologics faltered after his departure, and the agency has been exceptionally cautious about guidelines for innovative technologies. We need a FDA commissioner who will push advisory committees to set standards for approval before companies invest years and tens of millions of dollars in clinical trials, not afterward. At TKT, we believe regulators need to work with industry and consumers to create clear standards for follow-on