## THE REGULATORY ASPECTS OF THE DEVELOPMENT AND PRODUCTION OF VETERINARY PRODUCTS

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involved in producing Everyone veterinary drugs knows that the ability to produce such drug products at competitive prices dependent on Food and Drug Administration policies. paper FDA's recently announced addresses My implemented policies and possible future regulatory will affect the trends that pharmaceutical industry. The focus of my remarks on the veterinary industry and the FDA are divided into three parts: (1) regulatory changes that are (2) regulatory issues that need occurring; resolution; and (3) future legislative issues. us start with regulatory changes that are occurring or have occurred.

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It is difficult not to begin any present day discussion without recognizing the administrative judge's (ALJ's) determination to nitrofurazones for use as drugs in animal feed. November 12, 1986, Administrative Law Judge Daniel determined that nitrofurazone and Davidson furazolidone and their metabolites have not been found to be safe under conditions of use approved in the new animal drug applications (NADAs). In addition, he found that furazolidone, based on new cancer in man or animal evidence, induces therefore, these NADAs were revoked under the Delanev (cancer) clause. Now everyone recognizes that these drugs are not the first animal drugs to be withdrawn, nor will this withdrawal have a major The interest economic impact in the marketplace. in this particular proceeding is its historical longevity and the ALJ's ruling on Delaney. who have been in the field for a number of years will remember that the FDA's Notice of Intent to Withdraw these drugs was first published in March 1971, over fifteen years ago. The final hearing notice was published in the Federal Register 1984 and the first pre-hearing conference was held in November of 1984. Finally, in November of 1986,



the after final two years hearing notice, administrative law judge has announced a decision.

One of the major issues in the decision was what risk factor will form the basis for invoking the Delaney clause. The manufacturers had argued that the risk factor should be 1 in 100,000 based on benefit, but the ALJ determined that the risk factor should be 1 in 1,000,000 because the FDA's regarding poisonous and deleterious policy substances is 1 in 1,000,000 when substances cannot be avoided by good manufacturing practices (GMPs). The ALJ then pointed out that there was no reliable method of detection to measure the metabolites in edible tissue. The statute  $\S512(b)(7)$ requires that the metabolites be measureable. You realize, course, that the ALJ's determination is decision final agency action and the can be the Commissioner. appealed to Ιn fact, manufacturers involved in the hearing requested 75 days in which to prepare a response to the ALJ's written opinion. The 75 day request was denied and the Commissioner allowed only 30 days. The point you should keep in mind is that it has taken almost years, and the administrative procedure is not The actual hearing process before Davidson over.



One can also expect that whatever took two years. decision is made by the Commissioner, i.e., accept the ALJ's decision or modify it, will be appealed to the Court of Appeals. Manufacturers have spent 16 years battling the agency are who not likely to stop until they have exhausted every avenue of redress.

On a second front, the agency has abandoned the cyclic review of animal drugs as not being in During what some might call the public interest. the "socially active" days of the early 70's, the agency created a cyclic review of animal drug data to be sure that human safety data was adequate to support the animal drug's approval. The agency's recent determination that the cyclic review of the drug's food safety data is not in the animal public's best interest has been called question by a government report entitled "The Human Safety and the Regulation of Animal Report" prepared by the House Committee on Government Operations. The report became available 1986. The made in in January point Congressional report was that the abandonment of cyclic review program in was not



interest of the consuming public because there were unapproved new animal drugs such as methylene blue in the marketplace, unapproved uses for species and unapproved dosage levels, and investigational drug applications (INADs) that were over five years still agency's old and being marketed. The review determination to abandon the cyclic based on a decision to implement a "causal review" re-evaluation οt new animal drug applications (NADA's). This new policy - FDA Staff Manual Guide 1240.3542 (9/19/85) - requires FDA to review basic safety efficacy data and when information that identifies a possible problem that may be severe enough to support withdrawal of withstanding NADA. The fact that FDA is congressional pressure of Congressman Weiss (D-NY) suggests that the agency's decision is well thought out and that Congressman Weiss has failed to find the agency's Achilles heel. Whatever, the Center to be congratulated for terminating a program which it thought no longer benefited the American public.

In another matter, the Center stepped forward in a new area and will allow drug manufacturers of



approved new animal drug applications to state on their labels and to refer in advertisements to the The Center for Veterinary Medicine FDA approval. (CVM), where the agency's veterinary decisions are made, has stated that the label approval statements may be made only after the NADA has been amended by The requesting а supplemental NADA. published its standard in the Staff Manual Policy (1240-4000) dated 2/21/86. CVM concluded that the prohibition against referring to approval in labeling in §301(1) of the Act relates only to and devices and that t.here human drugs no prohibition from providing such information animal drug labels. It is interesting to note that manufacturer is only allowed to make statement "NADA #\_\_\_\_\_ approved by FDA" in the label and it can only appear on the front panel on the bottom of the label of the immediate container. a statement appears in the drug's insert, must be at the very beginning or at the very end of insert. advertising the As to and other "promotional material", any statement may indicate that the NADA is approved, it characterize the basis of the approval. in promotional material, the manufacturer may cite



to FDA's FOI Summary of the drug and the Federal Register citation for the drug approval.

You are aware, I am sure, that the animal drug regulatory system differs from the human regulatory system in that the statute requires, under §512(i)of the Act, that the drug approval for animal drug be published in the Federal Register. This information will then appear in the Code of Federal Regulations (CFR) (21 CFR 520-558). Therefore, it is relatively easy determine by the Code of Federal Regulations whether a particular new animal drug can legally be produced by a particular sponsor (manufacturer). The list of sponsors is at 21 CFR 510.600. The Federal Register publication is not done for human drugs, and, therefore, there is no publication in οf Federal Regulations listina (manufacturers) and the approved human sponsors You should not be overly alarmed about the failure to list human drugs in the CFR because is presently an official FDA publication listing all approved human drugs called the "Orange Book".



οf significant The fourth current issue medicated feed importance is the policy. The agency, for a number of years, has been unsatisfied with its medicated feed policy and the handling of the approval of. medicated feed applications. Recently, FDA adopted what it calls the "new second regulation". medicated feed generation proposal for the new procedure was published in 1983 following report from the July a The new medicated feed Medicated Feed Task Force. procedure the agency adopted (51 Fed. Reg. March 3, 1986) is designed to create two classes of medicated feeds: Category I feeds, which will not require the feed mill or farm to register; Category II feeds, which are animal drug-containing required residue withdraw times, feeds with which require registration of the mill or farm with The 1900 Form replaces FDA by filing a Form 1900. old Form 1800. The agency also plans withdraw the form 1800s held by firms that have failed direct inspections. The actual procedures for withdrawing the Form 1800's to be used under 21 \$512(m)(4) of the Act have not, to the best of my knowledge, been determined, nor do I expect them to be announced any time soon.



agency notes that there are over commercial feed mills. Many produce only Category I feeds and will not be required to register with For enforcement purposes, these feed mills be regulated by the state. Some mills will FDA approvals, but since they were seek compliance at the conclusion of their last their new Forms 1900 will be denied. The applications for the new forms are due and the agency intends to review those submitted prior to June 13, 1986, prior to the March 3, 1987 deadline.

These new procedures being used by the agency should improve FDA's ability to take action against violative medicated feed mills, but the regulatory process and the procedures by which the is operating have not changed materially with this new regulation for those firms required to obtain Form 1900s. The major change occurs for the feed millthat once needed a Form 1800 manufacture what are now Category I feeds. process is real government deregulation.

The last matter that I would list under regulatory action is FDA's efforts to



prevent the illegal distribution of veterinary drug well products. As you are aware, for veterinary drugs, the manufacturer seeks approval for one or maybe two species and, after the drug enters the marketplace, veterinarians and farmers often determine that this new drug will be A new, "extra-label" effective in other species. This has been a matter use for the product occurs. for sometime at the agency, but the concern issue has been highlighted because of Congressional from Congressman pressure "The Human Food Safety and Regulation of Animal Drugs Report", issued by the Weiss subcommittee January 1986, stated that the agency was permitting a violation of the pre-market approval section, these extra-label §512, of the Act because were occurring.

response to Weiss' allegation that significant number οf prescription were veterinary drugs involved in illegal drug sales, the FDA has devised methods to combat the problem. First, the agency, at the American Association of Veterinary State Boards meeting in Atlanta, invited state enforcement ο£ illegal veterinary



prescription sales. The agency also has noted that increased significantly its resources combat these illegal activities over the couple of years.

While the agency is in the process increasing its and seekina own resources assistance, it also is working with the Association of Food and Drug Officials (AFDO) to create a Model Veterinary Drug Code that would license all purveyors of veterinary drugs, unless the drug was household used for dogs, cats, or AFDO's Legislative committee, in response to FDA's request, has proposed a Model Veterinary Drug Code which it plans on adopting as a final code at its June 1987 meeting. The major provisions of model code would: (1) license all purveyors of veterinary drug products; (2) require recordkeeping (not dissimilar to that required of pharmacists for (3) physicians' prescriptions); exclude licensing purveyors of medicines for household pets; and (4) control the sale of both prescription and over-the-counter veterinary drug products under The AFDO's Code's failure to license. the same between distinguish prescription and



counter veterinary drugs does appear to create third class of drugs in the veterinary field. third i.e., drugs not requiring class. prescription but not generally available, present in the human drug area.

the high level The agency recognizes extra-label use that is occurring. In fact, in a survey of feedlots, FDA found that 25% of feedlots routinely stocked drugs which had not been approved for the particular species of animal in Many of these illegal products were the feedlot. prescription drugs. It also is, as far as FDA is concerned, a common practice to see the advertising and selling of illegal animal drugs directly to the FDA attempted to resolve the livestock producers. issue of extra-label use by stating in 1983 all unapproved uses of new animal drugs in producing animals, including those drugs used by veterinarians, would be actionable under the Food, and Cosmetic Act. In other words, FDA took Drug position that veterinarian, unlike the а physician, could not use any drug that he or she the best treatment for the patient chose as That was one of former (animal). CVM Director



it met great Crawford's policies and opposition the **AVMA** and the majority of practicing veterinarians. After much discussion the modified the 1983 consideration, agency policy the present that position to veterinarians to use new animal drugs extra-label limits such under certain circumstances, but to situations where there is circumstances veterinary-client-patient relationship.

With respect to extra-label use of medicated on November 1, FDA revised its Compliance feeds, Policy Guide (PFD CPG-7125.06) to say that a new animal drug may be used in medicated feed only as specifically permitted by the regulations. an attempt to stop fairly wide-spread abuses, but, particular, it was aimed аt the use in dimetridazole (DMZ) which is approved for turkeys as an aid in the control of blackhead. evidently is being used extensively by farmers against swine dysentery. The Compliance manual change places the agency on record as being against extra-label use of drugs in animal feeds. The extra-label drug use in species for which the drug is not approved is an issue which is difficult



for FDA and one which I will discuss in more detail later in my remarks.

I have not attempted to discuss all the past regulatory events and some might even suggest that I have not chosen the major ones, but I believe the ones discussed represent significant FDA's in relationship to control matters veterinary medicine. One item that has not been discussed which I feel should be commented on, is the agency's choice of a Director. After Lester Crawford left FDA to become Don Houston's deputy at USDA, FDA spent time reviewing the situation and made an excellent choice by appointing Dr. Gerald Guest as the Center's Director. Dr. Guest is a regulatory professional of the highest caliber who has spent a number of years at FDA and is extremely well qualified to provide the Center and the agency with the leadership that it so desperately needs at this time. Dr. Frank Young and the Department of Health and Human Services are to be congratulated on their choice.

Let me turn from the actions that involving the agency day-to-day and move to issues



that the agency must seek to resolve in the coming The first of those is tied, in some degree, to the last issue that I talked about, the illegal use of veterinary drug products. The agency has historically allowed injectable veterinary both antibiotics as prescription and over-the-Many of FDA's decisions counter veterinary drugs. were practical ones, in that the agency recognized the dairy farmers and professional breeders to diagnose many conditions and their own animals without the intervention of veterinarian. Ιn fact, some rules as to for veterinary drugs prescription status The drug would be past were made on that basis. over-the-counter as to dairv cattle and prescription as to horses. The rationale was that dairymen were dealing with a docile animal, cow, who they worked with daily, while many of were weekend enthusiasts who skilled or trained to either diagnose or administer medications to highly spirited animals. Because of the illegal use issue, the agency has raised the question of whether or not all injectable products should be prescription-only. CVM's Advisory Committee, to which this question was addressed,



was able to demonstrate that the drug products in the marketplace were inconsistently labeled. were products containing prescription legends being sold beside identical drug products available OTC with appropriate OTC labeling. There is also the issue that the Food, Drug and Cosmetic Act, does not contain explicit authorization for veterinary prescription drugs. There is no Durham-Humphrey Amendment, §503, in the veterinary provision §512 of the Act. Section 503 applies only to human drugs. The issue of OTC versus precription use was given to the CVM Advisory Committee to obtain their quidance and also reduce congressional pressure on The Committee was of little assistance the agency. In fact, because it could not reach a consensus. they recommended that the agency stop using the drug" labeling "human prescription statement "Federal law prohibits..." and instead adopt "restricted". The Center for Veterinary Medicine, at the October CVM Advisory Committee meeting, rejected the idea of the "restricted use" language and stated that it wished to modeled on the human drug has progressed Therefore, the agency no with this matter than when it requested the CVM



Advisory Committee's advice almost a year ago. Ιt is an issue which the agency needs to resolve.

Even though the agency has sought to limit extra-label use, FDA recognizes the extensive extra-label use, particularly of a product such as dimetridazole (DMZ) against swine dysentery. In fact, the agency targeted DMZ for enforcement action, but that decision was severely criticized by the CVM's Advisory Committee, which noted that DMZ was approved for swine dysentery in Canada and much οf Europe. Ιn fact, the CVMAdvisory Committee went on record as saying that it believed the agency was taking enforcement action as to DMZ based on a health-safety issue, but based on the fact that Congressman Weiss was exerting political pressure. Whether or not it is political pressure is really moot to Salisbury Laboratories, because on December 17, 1986, FDA published in the Federal Register (51 Fed. Reg. 45245) a Notice of Opportunity for Hearing on a proposal to withdraw the approved NADA for DMZ. FDA cannot ignore the political pressure, as can be seen by the fact that Congressman Weiss, in November of this past year, asked Commissioner Young to review FDA's policy as



to extra-label use. Weiss has taken the position current extra-label use policy which allows a veterinarian, under limited circumstances, to use the drug of his or her choice, does not comply fully with FDA's statutory authority. CVM states that intended extra-label use privilege to be restricted to rare circumstances in which the animal's health was in severe jeopardy, but that some in the veterinary profession have misread the agency's statements to be an approval of extra-label use.

The next matter I want to discuss also begins with a comment concerning Congressman Weiss. exerts the major congressional focus on veterinary products and is making FDA's Center for Veterinary Medicine either miserable or visible, depending on gone your perspective. Weiss has on requesting documents on whether the low level use penicillin and tetracycline in animal He did that in should be banned. early Meanwhile, the Commissioner has taken the position that the agency has not reached a decision on its long standing proposal to ban subtherapeutic uses Weiss is well aware antibiotics. that



agency, in 1977, proposed a ban on the low level use of penicillin and tetracycline. That proposal aside, in part because of congressional pressure counter to Weiss' position. Recently, CVM Director Guest noted that recent CDC studies strengthen the agency's argument to ban the use of He thought that, in six to low level antibiotics. eight months, the issue might be resolved. suggest that, while Guest comments may convinced, others in FDA and HHS are not prepared to articulate a final decision without additional It is interesting to note that one of peer review. the major arguments against banning the use of low antibiotics is the economic impact it will It has been argued by some that the consumer have. could see an increase of up to \$3 billion in animal due to the loss of improved food costs efficiency if the subtherapeutic penicillins tetracyclines were no longer available. 3 billion dollar number considers all the antibiotic uses and that the economic impact caused low level tetracyclines bv removing the and penicillins would be significantly less. The economic impact issue probably be can forever.



Now I would like to turn to what I would call issues, matters that future the agency must consider but on which they have not, or cannot, reach policy decisions. Both of the issues I am listing are in the area of legislation. just will mention, because my one Ι fellow Pendergast, will Bill discuss i.t detail. During this past congressional session, a Pharmaceutical Export Amendment (S.1848) was passed that permits the export from the United States of new animal drugs that have not yet been approved marketing in the United States. Bill will what that legislation provides think, something about it's impact. I would like to note that, if you are talking about regulatory developments, it will have a major impact in the future.

The other piece of "legislation" is the bill that did not pass when everyone thought it had such an excellent chance to pass. That was the Animal Drug Amendment and Patent Term Restoration Act of 1986 (S.2407). That legislation closely paralleled the human drug version, The Drug Price Competitioon and Patent Term Restoration Act of 1984.



the human bill, it was thought similar to that there would not be a significant problem with passing the animal drug amendment. The Senate bill was introduced by Orrin Hatch in May 1986 and, in June 1986, Henry Waxman introduced H.R. 5069, which basically paralleled the Hatch legislation. The major differences between the two were the transitional periods during which drugs could approved or the lengths of marketing exclusivity to be allowed. The legislation required measurements bioequivalency in the listed animal showing species, it required major species to be used for bioequivalence testing, some labeling requirements it eliminated the requirement in the Drug, and Cosmetic Act that every veterinary drug approval be published in the Federal Register and then appear in the Code of Federal Regulations.

The legislation ran into trouble in relationship to bioequivalences, an issue that has raised significant number of problems а in interpretation for the Human Drug Patent Term Restoration The "research firms" do Act. not believe that the agency's standards bioequivalency to "generic firms" as are



the generic firms believe enouah and agency is still requiring too much testing and being unduly pressured by the research firms. October, Senator Hatch thought he had a compromise, which was an amendment to the legislation which stated that FDA should consider requiring certain types of testing and that the agency could decide what species tests were appropriate. However, that provision was, while a compromise, not totally Metzenbaum amenable to everyone. Senator particularly concerned and, it appears, has second thoughts about how necessary The Drug Price Competition and Patent Term Restoration Act of 1984 legislation really was. He is not about to repeat the same error. Hatch had obtained а legislative version that was okayed by the Animal Health Insitute, the Generic Pharmaceutical Industry Association and FDA. Even with all that harmony, he was not able to obtain passage of the legislation and the session ended with the Animal Drug Patent Term Restoration bill dying. believed by many that that whole issue will brought up again and that industry and FDA will again seek patent term restoration legislation in animal drug area. Because Hatch has been



replaced by Senator Kennedy as the head of Senate Health committee, the future any legislation, and whether it will be possible to fashion compromises, and, in fact, will compromises be necessary, remains will significant interesting issue that deserve attention from those in the animal drug industry.

briefly attempted to give you have an of. the before the Center overview issues for Veterinary Medicine, some that they have resolved, some that they have to respond to and a reminder of the legislation both actual and proposed, that is the driving force for any regulatory agency.

