

Food and Drug Administration Rockville, MD 20857

WARNING LETTER

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT REQUESTED</u>

Mr. Kenneth Collins President & CEO Replidyne, Inc. 1450 Infinite Drive Louisville, CO 80027 Ref: 08-HFD-45-0117

Dear Mr. Collins:

This Warning Letter is to inform you of objectionable conditions found during the U.S. Food and Drug Administration's (FDA) investigations into Replidyne, Inc.'s (hereafter referred to as Replidyne) role as the applicant [21 CFR 314.3(b)] who submitted a marketing application in support of the approval of
Protocol
Protocol Prospective, randomized, double-blind, study comparing BID for 10 days with BID for 14 days in the treatment of patients with
Protocol Prospective, randomized, double-blind study comparing BID for 5 days with for 5 days in the treatment of patients with
Protocol "Prospective, randomized, double-blind, multi-center, comparative trial to evaluate the efficacy and safety of BID for 7 days in the treatment of

This investigation is a part of FDA's Bioresearch Monitoring Program which is designed to evaluate the conduct of research and to ensure that the rights, safety, and welfare of the human subjects of those studies have been protected. Another objective of the program is to ensure that data submitted in support of New Drug Applications are scientifically valid and accurate.

The FDA notes that the above mentioned stud	lies of the investigational drug
were sponsored by	(hereafter referred to as under IND
	een 2000 and 2003. We note further that
these studies were originally monitored by	Jor Jagents. The rights for the
product were subsequently transferred from	7toT
and in 2004 Replidyne obtained ow	nership of the product from In
February 2005, the US Adopted Names Coun-	cil assigned the new name
	, 2005, Replidyne prepared and submitted a
marketing application to FDA for	(i.e. NDA)
-	

We note that FDA investigators visited Replidyne between July 19, 2006 and August 8, 2006 for an initial inspection, and between September 11, 2006 and October 17, 2006 for a second inspection. At the conclusion of each inspection, FDA personnel presented and discussed with you and your staff the Form FDA 483, Inspectional Observations. We have reviewed Replidyne's written responses dated September 11, 2006, and February 8, 2007 to the items listed on the Form FDA 483 dated August 8, 2006 and October 17, 2006, respectively.

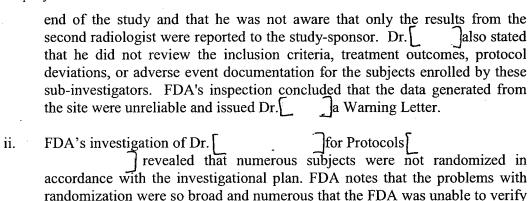
From our review of the establishment inspection reports (EIRs), the documents submitted with that report, your written responses dated September 11, 2006 and February 8, 2007 to the inspectional observations, and the EIR and documents for the clinical investigators that were inspected for NDA we conclude that Replidyne did not adhere to the applicable statutory requirements and regulations governing an applicant's responsibilities concerning submission of data and information to the FDA. We wish to emphasize the following deficiencies with respect to the above-referenced clinical investigations submitted in support of NDA

1. FAILURE TO MAKE AVAILABLE THE UNDERLYING RAW DATA FROM THE INVESTIGATION FOR FDA'S AUDIT [21 CFR 314.3(b)].

The FDA notes that Replidyne acquired the *right of reference or use* [21 CFR 314.3(b)] of the clinical investigations originally conducted by and subsequently submitted a marketing application to the FDA. Thus as the applicant who acquired the *right of reference or use*, Replidyne was required to make available the underlying raw data from the above clinical investigations for FDA audit. We note that you failed to provide all of the underlying raw data for FDA's audit. For example,

2.

a.	During the FDA audit, when FDA investigators asked for information regarding the training of individuals involved in the studies, Replidyne reportedly stated that refused to provide Replidyne with a copy of the standard operating procedures (SOPs) used for the conduct and monitoring of studies that were submitted in support of NDA
b.	For Protocol Clinical Site #36 (Dr. The monitoring visit report for 12 December 2001 was not available for FDA inspection.
c.	The FDA had requested information from Replidyne concerning audits that were to take place for 4 international clinical investigators that conducted studies under NDA
CFR unde	wish to emphasize that it was the responsibility of Replidyne, as the applicant [21 314.3(b)], to ensure that prior to submission of the application, all of the erlying raw data from all of the clinical investigations conducted to support the ication was to be made available to the FDA for possible auditing.
ANA THI DRU APP INF	LURE TO PROVIDE THE FDA ADEQUATE DESCRIPTIONS AND ALYSES OF ANY OTHER DATA OR INFORMATION RELEVANT TO E EVALUATION OF THE SAFETY AND EFFECTIVENESS OF THE UG PRODUCT OBTAINED OR OTHERWISE RECEIVED BY THE PLICANT FROM ANY SOURCE, FOREIGN OR DOMESTIC INCLUDING ORMATION DERIVED FROM CLINICAL INVESTIGATIONS [21 CFR 50(d)(5)(iv)].
applineless reless other infor the H shou	FDA notes that as the applicant, Replidyne was required to provide within the ication to the FDA, a description and analysis of any other data or information vant to the evaluation of the safety and effectiveness of the drug product obtained or rwise received by the applicant from any source, foreign or domestic, including rmation derived from clinical investigations [21 CFR 314.50(d)(5)(iv)] to permit FDA to make a knowledgeable judgment about whether or not the application ald be approved. The FDA notes that Replidyne failed to provide sufficient rmation at the time of submission of the application.
r	The FDA notes that Replidyne submitted data from several clinical investigative research sites in support of NDA but did not adequately verify the integrity of the data at those sites, prior to the submission to the FDA. For example,
i.	FDA's investigation of Dr. for Protocol revealed that Dr. did not personally meet with at least two of his sub-investigators who conducted the study, nor did he review the research or clinic records regarding the subjects they enrolled. Dr. informed FDA investigators that he was not aware that all the screening x-rays obtained by the two sub-investigators were re-interpreted by a second radiologist at the



iii. FDA's investigation of Dr. for Protocol found that he failed to retain research records in accordance with 21 CFR 312.62(c). Thus the FDA was unable to verify the integrity of the data submitted by Replidyne to the FDA from this site.

the integrity of the data at this site.

b. The FDA notes that during the course of both inspections that occurred at your facility, FDA investigators were unable to locate all of the monitoring reports from several clinical investigative sites (e.g. protocol site #27, Dr. and site #48, Dr. protocol site #23, Dr. site #34, Dr. we note that you only obtained possession of these monitoring reports either during the FDA audits or after the FDA audit and in response to the Form FDA 483 that was issued.

The FDA notes that as you did not have all of the monitoring reports within your possession prior to submission of the NDA to the agency, we cannot assess how you could have properly ensured the integrity of the data that was submitted to the FDA from the clinical investigators sites and have subsequently provided the FDA with an adequate description and analysis of any other data or information relevant to the evaluation of the safety and effectiveness of the drug product.

This letter is not intended to be an all-inclusive list of deficiencies with the submission of a marketing application to the FDA. It is your responsibility to ensure adherence to each requirement of the law and relevant FDA regulations. You must address these deficiencies and establish procedures to ensure that any on-going or future studies will be in compliance with FDA regulations.

Within fifteen (15) working days of your receipt of this letter, you must notify this office in writing of the actions you have taken or will be taking to prevent similar violations in the future. Failure to adequately and promptly explain the violations noted above may result in regulatory action without further notice.

If you have any questions, please contact Dr. Tejashri Purohit-Sheth at (240) 276-8840; FAX (240) 276-8811. Your written response and any pertinent documentation should be addressed to Dr. Leslie Ball at the address below.

Sincerely yours,

(See appended electronic signature page)

Leslie K. Ball, M.D.
Division Director
Division of Scientific Investigations, HFD-45
Office of Compliance
Center for Drug Evaluation and Research
7520 Standish Place
Rockville, MD 20855

This is a representation of an electronic record that was signed electronically and this page is the manifestation of the electronic signature.

/s/

Leslie Ball 1/18/2008 04:27:42 PM