What to Disclose? Conflict of Interest Views Differ

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fficials in charge of disclosing financial interests in research agree that disclosure is important but are confused about how to do so effectively and appropriately, Kevin P. Weinfurt, Ph.D., and his colleagues reported.

Their survey of 42 such officials revealed widely varying opinions on when disclosure should be made, the financial limits that should trigger it, and how much information to share with prospective research subjects, said Dr. Weinfurt, a psychiatrist at Duke University, Durham, N.C., and his coinvestigators.

Part of their struggle relates to a lack of clarity regarding the ultimate goals of disclosure," the researchers wrote. "There is also a lack of systematic data regarding how potential research participants can and will use such information in their decision-making" (J. Law Med. Ethics 2006;34:581-91).

The study was based on detailed personal interviews with 8 investigators, 23 review board chairs, and 14 conflict of interest committee chairs. The survey was designed to elicit respondents' understandings of how disclosure is done at their institutions and their thoughts on the importance of disclosure, including its risks and benefits to the institution and research subjects.

More than half of those interviewed agreed that disclosure should occur under all circumstances; the rest said disclosure would depend on the degree of the financial relationship. The most commonly expressed reason for disclosing a financial relationship was to facilitate better-informed decision making for potential subjects. Other reasons included trust and transparency issues, reducing liability risk, and managing public perception of the institution.

About 80% of respondents said the disclosure should include the name of the funding source. But some said the name of the company or organization wasn't as important as a description.

They also differed on whether the amount of financial interest should be disclosed.

Conflict of interest committee chairs were most likely to want to share this information (93%), while investigators were least likely (63%). Those who expressed concern about disclosing the amount felt

INDEX OF ADVERTISERS

Allergan, Inc. Botox	13
Eli Lilly and Company Cymbalta	3-4, 16-18
Novartis Pharmaceuticals Corporation Focalin XR	8a-8b, 9
Serono, Inc. Rebif	23-24
Shire US Inc. Carbatrol	11-12
UCB, Inc. Keppra Corporate	7-8 22

that level of detail could become cumbersome or confusing in the informed consent statement, and that research subjects might overestimate the impact that particular amounts might actually have on research outcomes. There was no consensus on what amount should trigger disclosure—the lower limit ranged from

There was general agreement that the nature of the relationship should be disclosed, but no agreement about whether the disclosure should explain the possible impact of those relationships.

Most respondents dismissed the idea that disclosure could lower enrollment. There was little sympathy among the group for researchers who complained that full disclosure was an invasion of their financial privacy.

There was also concern about how to best highlight disclosure information without overemphasizing its importance or potential risk to a study's integrity. Some respondents said their consent form highlights the information in bold type, while others place it strategically in the document—at the very beginning, for example. Many also emphasized that the informed consent process should include a discussion of conflict of interest, not just a readthrough of the document.

Our data suggest that it will be difficult to achieve agreement on the issue of substantial understanding of financial interests," the researchers concluded.

EVidence of Interferon Dose-response: European North American Comparative Efficacy study.
Prevention of Relapses and Disability by Interferon β-1a Subcutaneously in Multiple Sclerosis study.
References: 1. Data on file, Serono, Inc. 2. The PRISMS Study Group, and the University of British Columbia MS/MRI Analysis Group. PRISMS-4: long-term efficacy of interferon-β-1a in relapsing MS. Neurology. 2001;56:1628-1636.



BRIEF SUMMARY OF FULL PRESCRIBING INFORMATION

INDICATIONS AND USAGE
Rebif® (interferon-beta-1a) is indicated for the treatment of patients with relapsing forms of multiple sclerosis to decrease the frequency of clinical exacerbations and delay the accumulation of physical disability. Efficacy of Rebif® in chronic progressive multiple sclerosis has not been established.

Clinical Studies
Two multicenter studies evaluated the safety and efficacy of Rebif® in patients with relapsing-remitting multiple sclerosis. Study 1 demonstrated that Rebif® significantly reduced the number of relapses per patient compared to placebo at 2 years. Study 2 was a comparative trial comparing Rebif® 44 mcg sc tiw and Avonex® 30 mcg im qw. The results of this trial demonstrated that patients treated with Rebif® 44 mcg sc tiw were more likely to remain relapse-free at 24 and 48 weeks than were patients treated with Avonex® 30 mcg im qw. Adverse reactions over 48 weeks were generally similar between the two treatment groups. Exceptions included injection site disorders (83% of patients on Rebif® vs. 28% of patients on Avonex®), hepatic function disorders (18% on Rebif® vs. 10% on Avonex®), and Avonex®, which were observed with greater frequency in the Rebif® group compared to the Avonex® group.

CONTRAINDICATIONS

nterferon beta-1a) is contraindicated in patients with a history of hypersensitivity to natural ibinant interferon, human albumin, mannitol USP, sodium acetate, or Water for Injection USP.

VVARNING5Rebiff (interferon beta-1a) should be used with caution in patients with depression, a condition that is common in people with multiple sderosis. Depression, suicidal ideation, and suicide attempts have been reported to occur with increased frequency in patients receiving interferon compounds, including Rebiff. Patients should be advised to report immediately any symptoms of depression and/or suicidal ideation to the prescribing physician. If a patient develops depression, cessation of treatment with Rebiff should be considered.

Severe liver injury, including some cases of hepatic failure requiring liver transplantation has been reported rarely in patients taking Rebif*. Symptoms of liver dysfunction began from one to six months following the initiation of Rebif*. If jaundice or other symptoms of liver dysfunction appear, treatment with Rebif* should be discontinued immediately due to the potential for rapid progression to liver failure. Asymptomatic elevation of hepatic transaminases (particularly SGPT) is common with interferon therapy (see ADVERSE REACTIONS). Rebif* should be initiated with caution in patients with active lives disease, alcohol abuse, increased serum SGPT (52.5 times ULN), or a history of significant liver disease. Also, the potential risk of Rebif* used in combination with known hepatotoxic products should be considered prior to Rebif* administration, or when adding new agents to the regimen of patients already on Rebif*. Reduction of Rebif* dose should be considered if SGPT rises above 5 times the upper limit of normal. The dose may be gradually re-escalated when enzyme levels have normalized.

Anaphylaxis has been reported as a rare complication of Rebif® use. Other allergic reactions have included skin rash and urticaria, and have ranged from mild to severe without a dear relationship to dose or duration of exposure. Several allergic reactions, some severe, have occurred after prolonged use.

PRECAUTIONS

General: Caution should be exercised when administering Rebif® to patients with pre-existing seizure disorders. Seizures have been associated with the use of beta interferons. A relationship between occurrence of seizures and the use of Rebif® has not been established. Leukopenia and new or worsening thyroid abnormalities have developed in some patients treated with Rebif®. Regular monitoring for these conditions is recommended.

All patients should be instructed to read the Rebif® Medication Guide supplied to them. Patients should be cautioned not to change the dosage or the schedule of administration without medical consultation.

Female patients should be cautioned about the abortifacient potential of Rebif®

Patients should be instructed in the use of aseptic technique when administering Rebif®. Appropriate instruction for self-injection or injection by another person should be provided, including careful review of the Rebif® Medication Guide. If a patient is to self-administer Rebif®, the physical and cognitive ability of that patient to self-administer and properly dispose of syringes should be assessed. The initial injection should be performed under the supervision of an appropriately qualified health care professional. Patients should be advised of the importance of rotating sites of injection with each dose, to minimize the likelihood of severe injection site reactions or necrosis.

Laboratory Tests: In addition to those laboratory tests normally required for monitoring patients with multiple sclerosis, blood cell counts and liver function tests are recommended at regular intervals (1, 3, and 6 months) following introduction of Rebif® therapy and then periodically thereafter in the absence of clinical symptoms. Thyroid function tests are recommended every 6 months in patients with a history of thyroid dysfunction or as clinically indicated. Patients with myelosuppression may require more intensive monitoring of complete blood cell counts, with differential and platelet counts.

Also, the potential for hepatic injury should be considered when Rebif® is used in combination with other products associated with hepatic injury, or when new agents are added to the regimen of patients already on Rebif® (see WARNINGS).

Carcinogenesis, Mutagenesis, Impairment of Fertility: No carcinogenicity data for Rebif® are available in animals or humans. Rebif® was not mutagenic when tested in the Ames bacterial test and in an in vitro cytogenetic assay in human lymphocytes in the presence and absence of metabolic activation. No studies have been conducted to evaluate the effects of Rebif® on fertility in humans. In studies in normally cyding female cynomolgus monkeys given daily sc injections of Rebif® for six months at doses of up to 9 times the recommended weekly human dose (based on body surface area), no effects were observed on either menstrual cycling or serum estradiol levels. The validity of extrapolating oses used in animal studies to human doses is not established. In male monkeys, the same doses of Rebif® had no demonstrable adverse effects on sperm count, motility, morphology, or function.

Pregnancy Category C: Rebif® treatment has been associated with significant increases in embryolethal or abortifacient effects in cynomolgus monkeys administered doses approximately 2 times the cumulative weekly human dose (based on either body weight or surface area) either during the period of organogenesis (gestation day 21-89) or later in pregnancy. There were no fetal malformations or other evidence of teratogenesis noted in these studies. These effects are consistent with the abortifacient effects of other type I interferons. There are no adequate and well-controlled studies of

Rebif® in pregnant women. However, in Studies 1 and 2, there were 2 spontaneous abortions observed and 5 fetuses carried to term among 7 women in the Rebif® groups. If a woman becomes pregnant or plans to become pregnant while taking Rebif®, she should be informed about the potential hazards to the fetus and discontinuation of Rebif® should be considered. A pregnancy registry has been established to monitor pregnancy outcomes of women exposed to Rebif® while pregnant. Register patients online to monitor pregnancy outcomes of women exposed to Rebif® while pregnan at www.RebifPregnancyRegistry.com or call MS LifeLines™ at 1-877-447-3243.

Nursing Mothers: It is not known whether Rebif® is excreted in human milk

Table 1. Adverse Reactions and Laboratory Abnormalities in Study 1

51% 63% 36% 16% 5% 5% 1%

3%

1%

Pediatric Use: The safety and effectiveness of Rebif® in pediatric patients have not been studied.

Geriatric Use: Clinical studies of Rebif® did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently than younger subjects.

ADVERSE REACTIONS

BODY SYSTEM Preferred Tern

Fatigue Fever

Rigors Chest Pain Ma**l**aise

BODY AS A WHOLE

INJECTION SITE DISORDERS

ENJECTION SITE NECTOSIS

CENTRAL & PERIPH NERVOUS

SYSTEM DISORDERS

Hypertonia

Coordination Abnormal

Convulsions

GASTROINTESTINAL SYSTEM DISORDERS Abdominal Pain Dry Mouth

LIVER AND BILIARY SYSTEM
DISORDERS
SGPT Increased
SGOT Increased
Hepatic Function Abnormal
Bilirubinaemia

MUSCULO-SKELETAL SYSTEM

HEMATOLOGIC DISORDERS

PSYCHIATRIC DISORDERS

JRINARY SYSTEM DISORDERS

Myalgia Back Pain Skeletal Pain

Leukopenia Lymphadenopathy Thrombocytopenia Anemia

KIN DISORDERS

Rash Erythematous Rash Maculo-Papular

VISION DISORDERS

ENDOCRINE DISORDERS

Injection Site Reaction Injection Site Necrosis

ADVERSE REACTIONS

The most frequently reported serious adverse reactions with Rebif® were psychiatric disorders including depression and suicidal ideation or attempt (see WARNINGS). The incidence of depression of any severity in the Rebif®-treated groups and placebo-treated group was approximately 25%. In post-marketing experience, Rebif® administration has been rarely associated with severe liver dysfunction, including hepatic failure requiring liver transplantation (see WARNINGS). The most commonly reported adverse reactions were injection site disorders, influenza-like symptoms (headache, fatigue, fever, rigors, chest pain, back pain, myalgia), abdominal pain, depression, elevation of liver enzymes and hematologic abnormalities. The most frequently reported adverse reactions resulting in clinical intervention (e.g., discontinuation of Rebif®, adjustment in dosage, or the need for concomitant medication to treat an adverse reaction.

Rebif®

4%

Rehif®

6%

The safety of Rebif® (22 mcg and 44 mcg) vs placebo was studied in 560 patients with RRMS who were treated for 24 months (Study 1). Table 1 enumerates adverse events and laboratory abnormalities that occurred at an incidence that was at least 2% more in either Rebif®-treated group than was observed in the placebo group.

Immunogenicity: As with all therapeutic proteins, there is a potential for immunogenicity. Serum NAb were detected in 31% and 24% of Rebiffe-treated patients at the 22 mcg and 44 mcg tiw dose respectively at one or more times during Study 1. The dinical significance of the presence of NAb to Rebiffe is unknown. Comparison of the incidence of antibodies to other products may

DOSAGE AND ADMINISTRATION

DOSAGE AWD

ADMINISTRATION

Dosages of Rebif® shown to be safe and effective are 22 mcg and 44 mcg sc tiw. Rebif® should be administered, if possible, at the same time (preferably in the late afferencon or evening) on the same three days (e.g. Monday, Wednesday, and Friday) at least 48 hours apart each week, Generally, patients should be started at 20% of the prescribed dose and increased over a 4-week period to the targeted dose, either 22 mcg or 44 mcg sc tiw. Leuklopenia or elevated liver function tests may necessitate dose reduction or discontinuation of Rebif® administration until toxicity is resolved.

Rebif® is intended for use under the guidance and supervision of a physician. It is recommended that physicians or qualified medical personnel train patients in the proper technique for self-administering subcutaneous injections using the pre-filled syninge. Patients should be advised to rotate sites for sc injections. Concurrent use of analgesics and/or antipyretics may help ameliorate flul-like symptoms on treatment days. Rebif® should be inspected visually for particulate matter and discoloration prior to administration.

4%

Manufacturer: Serono, Inc., Rockland, MA 02370 U.S. License # 1574

Co-marketed by: Serono, Inc., Rockland, MA 02370 Pfizer, Inc., New York, NY 10017

Rebif® is a registered trademark of Serono, Inc.
MS LifeLines^{5M} is a service mark of Serono, Inc.
Avonex® is a registered trademark of Biogen Idec Inc.
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