CENTER FOR DRUG EVALUATION AND RESEARCH

Approval Package for:

APPLICATION NUMBER:

74-760

Generic Name: Miconazole Nitrate Vaginal Cream, 2%

Sponsor: L. Perrigo Company

Approval Date: May 15, 1997

CENTER FOR DRUG EVALUATION AND RESEARCH

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Medical Review(s)	X
Chemistry Review(s)	X
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Pharmacology Review(s)	
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Clinical Pharmacology & Biopharmaceutics Reviews	
Bioequivalence Review(s)	X
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CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

74-760

APPROVAL LETTER

L. Perrigo Company
Attention: David A. Jespersen
117 Water Street
Allegan, MI 49010

Dear Mr. Jespersen:

This refers to your abbreviated new drug application dated September 29, 1995, submitted pursuant to Section 505(j) of the Federal Food, Drug, and Cosmetic Act, for Miconazole Nitrate Vaginal Cream, 2%.

Reference is also made to your amendments dated March 20, August 9, October 1, 4, 16 and 29, 1996, and April 15, 1997.

We have completed the review of this abbreviated application and have concluded that the drug is safe and effective for use as recommended in the submitted Over-The-Counter (OTC) labeling. Accordingly, the application is approved. The Division of Bioequivalence has determined your Miconazole Nitrate Vaginal Cream, 2% to be bioequivalent to the list drug, Monistat® 7 of RW Johnson Pharmaceutical Research Institute.

Under 21 CFR 314.70, certain changes in the conditions described in this abbreviated application require an approved supplemental application before the change may be made.

Post-marketing reporting requirements for this abbreviated application are set forth in 21 CFR 314.80-81. The Office of Generic Drugs should be advised of any change in the marketing status of this drug.

Sincerely yours,

/\$/_

5/15/97

Douglas L. Sporn

Director

Office of Generic Drugs

Center for Drug Evaluation and Research

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

74-760

Final Printed Labeling

Final Printed Labeling ANDA 74-760 **Educational Brochure** (Disposable Applicator-Front)





EDUCATIONAL BROCHURE

MAY 15



CURES MOST VAGINAL YEAST INFECTIONS

MICONAZOLE NITRATE VAGINAL CREAM, 2%

RELIEVES EXTERNAL VULVAR ITCHING AND IRRITATION ASSOCIATED WITH A YEAST INFECTION

INDICATIONS:

For the treatment of vaginal yeast infections and the relief of external vulvar itching and irritation associated with a yeast infection.

If you have any or all of the symptoms of a vaginal yeast infection (vaginal itching, burning, discharge) and if at some time in the past your doctor has told you that these symptoms are due to a vaginal yeast infection, then MICONAZOLE NITRATE VAGINAL CREAM should yeast infection, then MICONAZOLE NITRATE VAGINAL CREAM should work for you. If, however, you have never had these symptoms before, you should see your doctor before using MICONAZOLE NITRATE VAGINAL CREAM. MICONAZOLE NITRATE VAGINAL CREAM SECONAZOLE NITRATE VAGINAL VICTOR SECONAZOLE NITRATE VAGINAL VEGET METERAL VICTOR SECONAZOLE NITRATE VAGINAL VEGET METERATION (CAMPIDIA NITRATE VAGINAL VEGET METERATION).

WHAT ARE VAGINAL YEAST INFECTIONS (CANDIDIASIS)?

WHAI ARE VAGINAL YEAST INFECTIONS (CANDIDIASIS)? A yeast infection is a common type of vaginal infection. Your doctor may call it candidiasis. This condition is caused by an organism called Candida, which is a type of yeast. Even healthy women usually have this yeast on the skin, in the mouth, in the digestive track, and in the vagina. At times, the yeast can grow very quickly. In fact, the infection is sometimes called yeast (Candida) "overgrowth." Some women also experience a yeast infection on the external skin (vulva) associated with the internal vaginal infection. with the internal vaginal infection.

A yeast infection can occur at almost any time of life. It is most common during the childbearing years. The infection tends to develop most often in some women who are pregnant, diabetic, taking antibiotics, taking birth control pills, or have a damaged immune system.

Various medical conditions can damage the body's normal defenses against infection. One of the most serious of these conditions is infection with the human immunodeficiency virus (HIV—the virus that causes AIDS). Infection with HIV causes the body to be more susceptible to infections, including vaginal yeast infections. Women with HIV infection may have frequent vaginal yeast infections or, especially, vaginal yeast infections that do not clear up easily with proper treatment. If you may have been exposed to HIV and are experiencing either frequently recurring vaginal yeast infections or, especially, vaginal yeast infections that do not clear up easily with proper treatment, you should see your doctor promptly. If you wish further information on risk factors for HIV infection or on the relationship between recurrent or persistent vaginal yeast infections and HIV Various medical conditions can damage the body's normal defenses

further information on risk factors for HIV infection or on the relationship between recurrent or persistent vaginal yeast infections and HIV infection, please contact your doctor or the CDC National AIDS HOTLINE at 1-800-342-AIDS (English), 1-800-344-7432 (Spanish), or 1-800-243-7889 (hearing impaired, TDD).

IF YOU EXPERIENCE FREQUENT YEAST INFECTIONS (THEY RECUR WITHIN A TWO MONTH PERIOD) OR IF YOU HAVE YEAST INFECTIONS THAT DO NOT CLEAR UP EASILY WITH PROPER TREATMENT, YOU SHOULD SEE YOUR DOCTOR PROMPTLY TO DETERMINE THE CAUSE AND TO RECEIVE PROPER MEDICAL CARE.

SYMPTOMS OF VAGINAL YEAST INFECTIONS

There are many signs and symptoms of a vaginal yeast infection.

- Vaginal itching (ranging from mild to intense); A clumpy, vaginal discharge that may look like cottage cheese; Vaginal soreness, irritation, or burning, especially during vaginal

• Rash or redness around the vagina (vulvar irritation).
• NOTE: Vaginal discharge that is different from above, for example, a yellow/green discharge or a discharge that smells "fishy," may indicate that you have something other than a yeast infection. If this is the case, you should consult your doctor before using MICONAZOLE NITRATE VAGINAL CREAM.

- VARNINGS
 This product is only effective in treating vaginal infection caused by yeast and in relieving vulvar itching and irritation associated with a yeast infection. Do not use in eyes or take by mouth. DO NOT USE MICONAZOLE NITRATE VAGINAL CREAM IF YOU HAVE ANY OF THE FOLLOWING SIGNS AND SYMPTOMS. ALSO, IF THEY OCCUR WHILE USING MICONAZOLE NITRATE VAGINAL CREAM, STOP USING THE PRODUCT AND CONTACT YOUR DOCTOR RIGHT AWAY. YOU MAY HAVE A MORE SERIOUS ILLNESS.

 FEVER (HIGHER THAN 100°F ORALLY)
 PAIN IN THE LOWER ABDOMEN, BACK OR EITHER SHOULDER
- SHOULDER
 A VAGINAL DISCHARGE THAT SMELLS BAD.
 If there is no improvement or if the infection worsens within 3 days, or complete relief is not felt within 7 days, or your symptoms return within two months, then you may have something other than a yeast infection. You should consult your doctor. If you may have been exposed to the human immunodeficiency virus (HIV, the virus that causes AIDS) and are now having recurrent vaginal infections, especially infections that don't clear up easily with proper treatment, see your doctor promptly to determine the cause of your symptoms and to receive proper medical care.
- medical care. Mineral oil may weaken latex in condoms or in diaphragms. This cream contains mineral oil. Do not rely on condoms or diaphragms to prevent sexually transmitted diseases or pregnancy while using MICONAZOLE NITRATE VAGINAL CREAM. Do not use tampons while using this medication. Do not use in girls less than 12 years of age. If you are pregnant or think you may be, do not use this product except under the advice and supervision of a doctor. Keep this and all drugs out of the reach of children. In case of accidental ingestion, seek professional assistance or contact a poison control center immediately.

CONTENTS

One tube of vaginal cream containing miconazole nitrate 2%. Seven disposable applicators.

Final Printed Labeling ANDA 74-760

Educational Brochure (Disposable Applicator-Back)

5

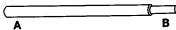
IMPORTANT: THE TUBE OPENING IS SEALED FOR YOUR PROTECTION. DO NOT USE IF THE TUBE SEAL HAS A HOLE IN IT OR IF THE SEAL CANNOT BE SEEN. RETURN THE PRODUCT TO THE STORE WHERE YOU BOUGHT IT.

DIRECTIONS FOR USE

Vaginal Application

Begin treatment at bedtime. Before going to bed:

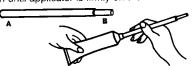
1 The first time you use a disposable applicator, pull the two pieces apart to see where the arrow is that indicates a full applicator. After locating the arrow, and before filling the applicator, push plunger "B" completely back inside "A". (Do not be concerned if the two come apart, they may easily be put back together.) See illustration. illustration.



To open the tube, unscrew the cap. Turn the cap upside down and place the cap in the end of the tube. Push down firmly until the seal is broken (as shown).

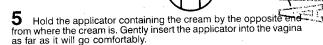


Attach the applicator to the tube by pushing end "A" of the applicator over the neck of opened tube. Turn applicator, pushing down until applicator is firmly on the neck of the tube (as shown)



Hold applicator firmly on the tube neck. Squeeze the tube from the bottom. This will force the cream into the applicator. Do this until the inside portion of the applicator plunger "B" is pushed out to the tip of the "FULL" arrow or the beginning of the green band. Separate applicator from tube.

(See illustration)





As shown in the pictures, this can be done while standing with your feet spread a few inches apart and your knees bent. Or, you can lie on your back with your knees bent. Once you are ready, push the inside piece of the applicator in and place the cream as far back in the vagina as possible. Then remove the applicator from the vagina. You should go to bed as soon as possible after inserting

the cream. This will reduce leakage.

You may want to use deodorant-free minipads or pantyshields during the time that you are using MICONAZOLE NITRATE VAGINAL CREAM. This is because the cream can leak and/or you may see some discharge. DO NOT USE TAMPONS

After each use, replace cap and roll tube from bottom (as shown).

Throw away the applicator after each use. DO NOT FLUSH IN TOILET. Use a new applicator for each dose.

Repeat steps 3 through 7 before going to bed on each of the next six evenings

External Vulvar Application

If needed, use the cream twice daily as follows:

Squeeze a small amount of cream on to your finger. 2. Gently apply the cream onto the skin (vulva) that itches and is

3. Repeat steps 1 and 2 each morning and evening as needed.

ADVERSE REACTIONS (SIDE EFFECTS)

The following side effects have been reported with the use of MICONAZOLE NITRATE VAGINAL CREAM: a temporary increase in burning, itching, and/or irritation when the cream is inserted. Abdominal cramping, headaches, hives, and skin rash have also been reported. If any of these occur, stop using MICONAZOLE NITRATE VAGINAL CREAM and consult your doctor.

FOR BEST RESULTS

1. Be sure to use all of the cream even if your symptoms go away before you have used all of the cream.

Use one applicatorful of cream at bedtime for seven nights in a row,

even during your menstrual period.

3. Wear cotton underwear.

4. If your partner has any penile itching, redness, or discomfort, he should consult his doctor and mention that you are treating yourself

for a vaginal yeast infection.

Dry the outside vaginal area thoroughly after a shower, bath, or swim. Change out of a wet bathing suit or damp workout clothes as soon as possible. A dry area is less likely to encourage the growth of yeast.

Wipe from front to rear (away from the vagina) after a bowel movement or urination.

Do not douche unless your doctor tells you to do so. Douching may

disturb the vaginal bacterial balance.

Do not scratch if you can help it. Scratching can cause more irritation and can spread the infection.

Discuss with your doctor any medication you are now taking. Certain types of medication can make your vagina more prone to

IF YOU HAVE A QUESTION

Questions of a medical nature should be taken up with your doctor.

ACTIVE INGREDIENT

miconazole nitrate 2% (100 mg per dose)

STORAGE

Store at room temperature 15° - 30°C (59° - 86°F). Avoid heat (over 30°C or 86°F).

Manufactured by:

Perriao Co. Allegan MI, 49010, U.S.A.

07/96 496053

Final Printed Labeling ANDA 74-760 **Educational Brochure** (Reusable Applicator-Front)



MAY 15 1997 EDUCATIONAL BROCHURE CURES MOST VAGINAL YEAST INFECTIONS MICONAZOLE NITRATE VAGINAL CREAM, 2%

RELIEVES EXTERNAL VULVAR ITCHING AND IRRITATION ASSOCIATED WITH A YEAST INFECTION

For the treatment of vaginal yeast infections and the relief of external vulvar itching and irritation associated with a yeast infection.

If you have any or all of the symptoms of a vaginal yeast infection (vaginal itching, burning, discharge) and if at sometime in the past your doctor has told you that these symptoms are due to a vaginal yeast infection, then MICONAZOLE NITRATE VAGINAL CREAM should work for you. If, however, you have never had these symptoms before, you should see your doctor before using MICONAZOLE NITRATE VAGINAL CREAM. MICONAZOLE NITRATE VAGINAL CREAM. MICONAZOLE NITRATE VAGINAL CREAM IS FOR THE TREATMENT OF VAGINAL YEAST INFECTIONS AND FOR THE RELIEF OF EXTERNAL VULVAR ITCHING AND IRRITATION ASSOCIATED WITH A YEAST INFECTION. IT DOES NOT TREAT OTHER INFECTIONS OR EXTERNAL ITCHING IT DOES NOT TREAT OTHER INFECTIONS OR EXTERNAL ITCHING AND IRRITATION DUE TO CAUSES OTHER THAN YEAST INFECTIONS. IT DOES NOT PREVENT PREGNANCY.

WHAT ARE VAGINAL YEAST INFECTIONS (CANDIDIASIS)?

A yeast infection is a common type of vaginal infection. Your doctor may call it candidiasis. This condition is caused by an organism called *Candida*, which is a type of yeast. Even healthy women usually have this yeast on the skin, in the mouth, in the digestive track, and in the vagina. At times, the yeast can grow very quickly. In fact, the infection is sometimes called yeast (Candida) "overgrowth". Some women also experience a yeast infection on the external skin (vulva) associated with the internal vaginal

A yeast infection can occur at almost any time of life. It is most common during the childbearing years. The infection tends to develop most often in some women who are pregnant, diabetic, taking antibiotics, taking birth control pills, or have a damaged immune system.

Various medical conditions can damage the body's normal defenses against infection. One of the most serious of these conditions is infection with the human immunodeficiency virus (HIV - the virus that causes AIDS). Infection with HIV causes the body to be more susceptible to infections, including vaginal yeast infections. Women with HIV infection may have frequent vaginal yeast infections or, especially, vaginal yeast infections that do not clear up easily with proper treatment. If you may have been exposed to HIV and are experiencing either frequently recurring vaginal yeast infections or, especially, vaginal yeast infections that do not clear up easily with proper treatment, you should see your doctor promptly. If you wish further information on risk factors for HIV infection or on the relationship between recurrent or persistent vaginal yeast infections and HIV infection, please contact your doctor or the CDC National AIDS HOTLINE at 1-800-342-AIDS (English), 1-800-344-7432 (Spanish), or 1-800-243-7889 (hearing impaired, TDD).

IF YOU EXPERIENCE FREQUENT YEAST INFECTIONS (THEY RECUR WITHIN A TWO MONTH PERIOD) OR IF YOU HAVE YEAST INFECTIONS THAT DO NOT CLEAR UP EASILY WITH PROPER TREATMENT, YOU SHOULD SEE YOUR DOCTOR PROMPTLY TO DETERMINE THE CAUSE AND TO RECEIVE PROPER MEDICAL CARE.

SYMPTOMS OF VAGINAL YEAST INFECTIONS

There are many signs and symptoms of a vaginal yeast infection. They

Vaginal itching (ranging from mild to intense);

- A clumpy, vaginal discharge that may look like cottage cheese;
- Vaginal soreness, irritation, or burning, especially during vaginal intercourse:
- Rash or redness around the vagina (vulvar irritation).

NOTE: Vaginal discharge that is different from above, for example, a yellow/green discharge or a discharge that smells "fishy", may indicate that you have something other than a yeast infection. If this is the case, you should consult your doctor before using MICONAZOLE NITRATE VAGINAL CREAM.

 This product is only effective in treating vaginal infection caused by yeast and in relieving vulvar itching and irriation associated with a yeast infection.

- Do not use in eyes or take by mouth.

 Do not use MICONAZOLE NITRATE VAGINAL CREAM if you have any of the following signs and symptoms. Also, if they occur while you are using MICONAZOLE NITRATE VAGINAL CREAM, Stop using the product and contact your doctor right away. You may have a more serious iliness.
 - Fever (higher than 100°F orally).
 - Pain in the lower abdomen, back, or either shoulder.
 - A vaginal discharge that smells bad.
- If there is no improvement or if the infection worsens within 3 days, or complete relief is not felt within 7 days, or your symptoms return within two months, then you may have something other than a yeast infection. You should consult your doctor.
- If you may have been exposed to the human immunodeficiency virus (HIV, the virus that causes AIDS) and are now having recurrent vaginal infections, especially infections that don't clear up easily with proper treatment, see your doctor promptly to determine the cause of your symptoms and to receive proper medical care.

 Mineral oil may weaken latex in condoms or in diaphragms. This cream
- contains mineral oil. Do not rely on condoms or diaphragms to prevent sexually transmitted diseases or pregnancy while using MICONAZOLE NITRATE VAGINAL CREAM.
- Do not use tampons while using this medication. Do not use in girls less than 12 years of age.
- If you are pregnant or think you may be, do not use this product except under the advice and supervision of a doctor.
- Keep this and all drugs out of the reach of children.
- In case of accidental ingestion, seek professional assistance or contact a poison control center immediately.

One tube of vaginal cream containing miconazole nitrate 2%. One plastic

IMPORTANT: THE TUBE OPENING IS SEALED FOR YOUR PROTECTION. DO NOT USE IF THE TUBE SEAL HAS A HOLE IN IT OR IF THE SEAL CANNOT BE SEEN. RETURN THE PRODUCT TO THE STORE WHERE YOU BOUGHT IT.

Final Printed Labeling ANDA 74-760 **Educational Brochure** (Reusable Applicator-Back)

DIRECTIONS FOR USE

Vaginal Application

Begin treatment at bedtime. Before going to bed

To open the tube, unscrew the cap Turn the cap upside down and place the cap on the end of the tube. Push down firmly until the seal is broken

Attach the applicator to the tube by turning applicator clockwise (as shown)

3 Squeeze the tube from the bottom. This will force the cream into the applicator. Do this until the inside piece of the applicator is pushed out as far as it will go and the applicator is completely filled. Separate applicator from tube.

OUTSIDE OF APPLICATOR

INSIDE PIECE

Hold the applicator containing the cream by the opposite end from where the cream is. Gently insert the applicator into the vagina as far as it will go comfortably.



As shown in the pictures, this can be done while standing with your feet spread a few inches apart and your knees bent. Or, you can lie on your back with your knees bent. Once you are ready, push the inside piece of the applicator in and place the cream as far back in the vagina as possible. Then remove the applicator-from the vagina. You should go to bed as soon as possible after inserting the cream. This will reduce leakage.

You may want to use deodorant-free minipads or pantyshields during the time that you are using MICONAZOLE N!TRATE VAGINAL CREAM. This is because the cream can leak and/or you may see some discharge. DO NOT USE TAMPONS.

5 Be sure to clean the applicator after each use. Pull the two pieces apart. Wash them with soap and warm water. To rejoin, gently push the inside piece into the outside piece as far as it will go.

After each use, replace cap and roll tube from bottom (as shown).

Repeat steps 2 through 6 before going to bed on each of the next

External Vulvar Application

If needed, use the cream twice daily as follows:

- Squeeze a small amount of cream onto your finger.
- Gently apply the cream onto the skin (vulva) that itches and is irritated.
- 3. Repeat steps 1 and 2 each morning and evening as needed.

ADVERSE REACTIONS (SIDE EFFECTS)

The following side effects have been reported with the use of MICONAZOLE NITRATE VAGINAL CREAM: a temporary increase in burning, itching, and/or irritation when the cream is inserted. Abdominal cramping, headaches, hives, and skin rash have also been reported. If any of these occur, stop using MICONAZOLE NITRATE VAGINAL CREAM and consult your doctor.

FOR BEST RESULTS

- 1. Be sure to use all of the cream even if your symptoms go away before
- you have used all of the cream.

 Use one applicator of cream at bedtime for seven nights in a row, even during your menstrual period. Wear cotton underwear.
- Hyour partner has any penile itching, redness, or discomfort, he should consult his doctor and mention that you are treating yourself for a
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 5. Dry the outside vaginal area thoroughly after a shower, bath, or swim. Change out of a wet bathing suit or damp workout clothes as soon as possible. A dry area is less likely to encourage the growth of yeast.

 6. Wipe from front to rear (away from the vagina) after a bowel movement or unafter.
- or urination
- 7. Do not douche unless your doctor tells you to do so. Douching may disturb the vaginal bacterial balance.

 8. Do not scratch if you can help it. Scratching can cause more irritation.
- and can spread the infection.
- Discuss with your doctor any medication you are now taking. Certain types of medication can make your vagina more prone to infection.

IF YOU HAVE A QUESTION

Questions of a medical nature should be taken up with your doctor.

ACTIVE INGREDIENT

miconazole nitrate 2% (100 mg per dose)

STORAGE

Store at room temperature 15°-30°C (59°-86°F). Avoid heat (over 30°C or 86°F).

MANUFACTURED BY: PERRIGO Co. ALLEGAN, MI 49010, U.S.A.

07/96

496062

NASTIVE INSREDIENTS: barzoic acid, BHA, glycaryl monosi paglicol 5 climin, paguzoi 7 stearain, purified water. NCTIVE ARGINEURENT: miconazoio nitrato 2% (100 mg per dose) re at room temperature 187-39°C (587-36°F), and head (ever 39°C or 48°F). a end thep for lot mamber and expiration date.

NET WT. 1.59 oz.(45 g)

7 DAY VAGINAL CREAM

AND RELIEVES ASSOCIATED EXTERNAL ITCHING AND IRRITATION CURES MOST VAGINAL YEAST INFECTIONS

7 DISPOSABLE APPLICATORS

MICONAZOLE NITRATE VAGINAL CREAM, 2%

MICONAZO VAGINAL

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7 DISPOSABLE APPLICATORS

MICONAZOLE VAGINAL CREAM

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sion using, mad the enclosed brochum. OR WASHAL LIRE CHLY DO NOT USE IN EYES IT TAKE BY MOUTH. MCATION: For the treatment of vaginal yeas clions (candidasts).

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MICONAZOLE NITRATE VAGINAL CREAM

Carton - Disposable Applicator 997-47 AGNA Final Printed Labeling

Final Printed Labeling ANDA 74-760 Carton - Reusable Applicator



Final Printed Labeling ANDA 74-760 45 Gram Tube

MAY 1 5 1997

AZOLE NITRATE VAGINAL CREAM MICONAZOLE NITRATE VAGINAL CREAM, 2%

CURES MOST VAGINAL YEAST INFECTIONS FOR VAGINAL AND EXTERNAL VULVAR USE ONLY DO NOT TAKE BY MOUTH OR USE IN EYES

7 DAY VAGINAL CREAM

NET WT. 1.59 oz (45 grams)

F THIS IS THE FIRST TIME YOU HAVE HAD VAGINAL ITCH AND DISCOMPORT, CONSULT YOUR DUCTOR IF YOU HAVE HAD A DOCTOR DIAGNOSE A VAGINAL FAST INFECTION BEFORE AND HAVE THE SAME SYMPTOMS NOW, USE THIS PRESENT HAS DIRECTED FOR SEVEN CONSECUTIVE DAYS.
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TO OPEN USE CAP TO PUNCTURE SEA.

ACTIVE INSTRUMENT: microscocio infranza 2% (100 mg per dose).

So end of tube for for native and expinition date.

Saver at resum temperature 19-30°C (167-30°F).

Avoid best (1970-30°C) and the seat of the sea

MANUFACTURED BY ZP PERRIGO*
ALEBAN M 48010 USA

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CENTER **FRONT**

CENTER BACK

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Final Printed Labeling ANDA 74-760 **Educational Brochure** (Reusable Applicator-Front)



CURES MOST VAGINAL YEAST INFECTIONS



MICONAZOLE NITRATE VAGINAL CREAM, 2% RELIEVES EXTERNAL VULVAR ITCHING AND IRRITATION ASSOCIATED WITH A YEAST INFECTION

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A yeast infection is a common type of vaginal infection. Your doctor may call it candidiasis. This condition is caused by an organism called Candida, which is a type of yeast. Even healthy women usually have this yeast on the skin, in the mouth, in the digestive track, and in the vagina. At times, the yeast can grow very quickly. In fact, the infection is sometimes called yeast (Candida) "overgrowth". Some women also experience a yeast infection on the external skin (vulva) associated with the internal vaginal infection.

A yeast infection can occur at almost any time of life. It is most common during the childbearing years. The infection tends to develop most often in some women who are pregnant, diabetic, taking antibiotics, taking birth

ontrol pills, or have a damaged immune system.

Various medical conditions can damage the body's normal defenses against infection. One of the most serious of these conditions is infection. against infection. One of the most serious of these conditions is infection with the human immunodeficiency virus (HIV - the virus that causes AIDS). Infection with HIV causes the body to be more susceptible to infections, including vaginal yeast infections. Women with HIV infection may have frequent vaginal yeast infections or, especially, vaginal yeast infections that frequent vaginal yeast infections or, especially, vaginal yeast infections that do not clear up easily with proper treatment. If you may have been exposed to HIV and are experiencing either frequently recurring vaginal yeast infections or, especially, vaginal yeast infections that do not clear up easily with proper treatment, you should see your doctor promptly. If you wish further information on risk factors for HIV infection or on the relationship between recurrent or persistent vaginal yeast infections and HIV infection, 1-800-342-AIDS (English), 1-800-344-7432 (Spanish), or 1-800-243-7889 (hearing impaired, TDD).

IF YOU EXPERIENCE FREQUENT YEAST INFECTIONS (THEY RECUR WITHIN A TWO MONTH PERIOD) OR IF YOU HAVE YEAST INFECTIONS THAT DO NOT CLEAR UP EASILY WITH PROPER TREATMENT, YOU SHOULD SEE YOUR DOCTOR PROMPTLY TO DETERMINE THE CAUSE AND TO RECEIVE PROPER MEDICAL CARE.

AND TO RECEIVE PROPER MEDICAL CARE.

SYMPTOMS OF VAGINAL YEAST INFECTIONS

There are many signs and symptoms of a vaginal yeast infection. They can include:

- Vaginal itching (ranging from mild to intense);
 A clumpy, vaginal discharge that may look like cottage cheese;
- Vaginal soreness, irritation, or burning, especially during vaginal
- Rash or redness around the vagina (vulvar irritation).

NOTE: Vaginal discharge that is different from above, for example, a yellow/green discharge or a discharge that smells "fishy", may indicate that you have something other than a yeast infection. If this is the case, you should consult your doctor before using MICONAZOLE NITRATE VAGINAL CREAM.

- This product is only effective in treating vaginal infection caused by yeast and in relieving vulvar itching and irritation associated with a yeast infection. Do not use in eyes or take by mouth.
- Do not use MICONAZOLE NITRATE VAGINAL CREAM if you have any of the following signs and symptoms. Also, if they occur while you are using MICONAZOLE NITRATE VAGINAL CREAM, Stop using the product and contact your doctor right away. You may have a more

 - Fever (higher than 100°F orally). Pain in the lower abdomen, back, or either shoulder.
- A vaginal discharge that smells bad.
- If there is no improvement or if the infection worsens within 3 days, or complete relief is not felt within 7 days, or your symptoms return within two months, then you may have something other than a yeast infection.
- If you may have been exposed to the human immunodeficiency virus If you may have been exposed to the numan immunodeticlency virus (HIV, the virus that causes AIDS) and are now having recurrent vaginal infections, especially infections that don't clear up easily with proper treatment, see your doctor promptly to determine the cause of your
- treatment, see your doctor promptly to determine the cause of your symptoms and to receive proper medical care.

 Mineral oil may weaken latex in condoms or in diaphragms. This cream contains mineral oil. Do not rely on condoms or diaphragms to prevent sexually transmitted diseases or pregnancy while using MICONAZOLE NITRATE VAGINAL CREAM.

- Do not use tampons while using this medication.
 Do not use in girls less than 12 years of age.
 If you are pregnant or think you may be, do not use this product except under the advice and supervision of a doctor.
- Keep this and all drugs out of the reach of children.
- In case of accidental ingestion, seek professional assistance or contact a poison control center immediately.

CONTENTS

One tube of vaginal cream containing miconazole nitrate 2%. One plastic applicator.

APPLICATOR

IMPORTANT: THE TUBE OPENING IS SEALED FOR YOUR PROTECTION.

DO NOT USE IF THE TUBE SEAL HAS A HOLE IN IT OR IF THE SEAL

CANNOT BE SEEN. RETURN THE PRODUCT TO THE STORE WHERE

Final Printed Labeling ANDA 74-760 **Educational Brochure** (Reusable Applicator-Back)

DIRECTIONS FOR USE

Vaginal Application

Begin treatment at bedtime. Before

Turn the cap upside down and place the cap on the end of the tube. Push down firmly until the seal is broken



2 Attach the applicator to the tube by turning applicator clockwise

3 Squeeze the tube from the bottom. This will Squeeze the tupe from the poticin. This will force the cream into the applicator. Do this until the inside piece of the applicator is pushed out as far as it will go and the applicator is completely filled. Separate applicator from tube.

OUTSIDE OF APPLICATOR

INSIDE PIECE

Hold the applicator containing the cream by the opposite end from where the cream is. Gently insert the



As shown in the pictures, this can be done while standing with your feet spread a few inches apart and your knees bent. Or, you can lie on your back with your knees bent. Once you are ready, push the inside piece of the applicator in and place the cream as far back in the vagina as possible. Then remove the applicator from the vagina. You should go to bed as soon as possible after inserting the cream. This will reduce leakage.

You may want to use deodorant-free minipads or pantyshields during the time that you are using MICONAZOLE NITRATE VAGINAL CREAM. This is because the cream can leak and/or you may see some discharge. DO NOT USE TAMPONS.

5 Be sure to clean the applicator after each use. Pull the two pieces apart. Wash them with soap and warm water. To rejoin, gently push the inside piece into the outside piece as far as it will go.

After each use, replace cap and roll tube from bottom (as shown).

Repeat steps 2 through 6 before going to bed on each of the next

External Vulvar Application

If needed, use the cream twice daily as follows:

- Squeeze a small amount of cream onto your finger.
- Gently apply the cream onto the skin (vulva) that itches and is irritated.
- $3.\,$ Repeat steps 1 and 2 each morning and evening as needed.

ADVERSE REACTIONS (SIDE EFFECTS) The following side effects have been reported with the use of MICONAZOLE NITRATE VAGINAL CREAM: a temporary increase in burning, itching, and/or irritation when the cream is inserted. Abdominal cramping, headaches, hives, and skin rash have also been reported. If any of these occur, stop using MICONAZOLE NITRATE VAGINAL CREAM and consult your dector.

and consult your doctor. FOR BEST RESULTS

- Be sure to use all of the cream even if your symptoms go away before you have used all of the cream.
 Use one applicator of cream at bedtime for seven nights in a row, even during your menstrual period.

- 3. Wear cotton underwear.

 4. If your partner has any penile itching, redness, or discomfort, he should consult his doctor and mention that you are treating yourself for a vaginal yeast infection.
- vaginal yeast infection.

 5. Dry the outside vaginal area thoroughly after a shower, bath, or swim. Change out of a wet bathing suit or damp workout clothes as soon as possible. A dry area is less likely to encourage the growth of yeast.

 6. Wipe from front to rear (away from the vagina) after a bowel movement
- 7. Do not douche unless your doctor tells you to do so. Douching may disturb the vaginal bacterial balance. Do not scratch if you can help it. Scratching can cause more irritation and can spread the infection.
- Discuss with your doctor any medication you are now taking. Certain types of medication can make your vagina more prone to infection.
- IF YOU HAVE A QUESTION

Questions of a medical nature should be taken up with your doctor. **ACTIVE INGREDIENT**

miconazole nitrate 2% (100 mg per dose)

Store at room temperature 15°-30°C (59°-86°F) Avoid heat (over 30°C or 86°F)

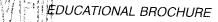
MANUFACTURED BY: PERRIGO Co. ALLEGAN, MI 49010, U.S.A.

07/96

496062

Final Printed Labeling ANDA 74-760 **Educational Brochure** (Disposable Applicator-Front)





MAY 15 KIGH





RELIEVES EXTERNAL VULVAR ITCHING AND IRRITATION ASSOCIATED WITH A YEAST INFECTION

INDICATIONS:

For the treatment of vaginal yeast infections and the relief of external vulvar itching and irritation associated with a yeast infection.

If you have any or all of the symptoms of a vaginal yeast infection (vaginal itching, burning, discharge) and if at some time in the past your doctor has told you that these symptoms are due to a vaginal yeast infection, then MICONAZOLE NITRATE VAGINAL CREAM should work for you. If, however, you have never had these symptoms before, you should see your doctor before using MICONAZOLE NITRATE VAGINAL CREAM. MICONAZOLE NITRATE VAGINAL CREAM IS FOR THE TREATMENT OF VAGINAL YEAST INFECTIONS AND FOR THE RELIEF OF EXTERNAL VULVAR ITCHING AND IRRITATION ASSOCIATED WITH A YEAST INFECTION. IT DOES NOT TREAT OTHER INFECTIONS OR EXTERNAL ITCHING AND IRRITATION DUE TO CAUSES OTHER THAN YEAST INFECTIONS. IT DOES NOT PREVENT PREGNANCY. If you have any or all of the symptoms of a vaginal yeast infection

WHAT ARE VAGINAL YEAST INFECTIONS (CANDIDIASIS)?

WHAT ARE VAGINAL YEAST INFECTIONS (CANDIDIASIS)?

A yeast infection is a common type of vaginal infection. Your doctor may call it candidiasis. This condition is caused by an organism called Candida, which is a type of yeast. Even healthy women usually have this yeast on the skin, in the mouth, in the digestive track, and in the vagina. At times, the yeast can grow very quickly. In fact, the infection is sometimes called yeast (Candida) "overgrowth." Some women also experience a yeast infection on the external skin (vulva) associated. experience a yeast infection on the external skin (vulva) associated with the internal vaginal infection.

A yeast infection can occur at almost any time of life. It is most common during the childbearing years. The infection tends to develop most often in some women who are pregnant, diabetic, taking antibiotics, taking birth control pills, or have a damaged immune

antibiotics, taking birth control pills, or have a damaged immune system.

Various medical conditions can damage the body's normal defenses against infection. One of the most serious of these conditions is infection with the human immunodeficiency virus (HIV—the virus that causes AIDS). Infection with HIV causes the body to be more susceptible to infections, including vaginal yeast infections. Women with HIV infection may have frequent vaginal yeast infections or, especially, vaginal yeast infections that do not clear up easily with proper treatment. If you may have been exposed to HIV and are experiencing either frequently recurring vaginal yeast infections or, especially, vaginal yeast infections that do not clear up easily with proper treatment, you should see your doctor promptly. If you wish further information on risk factors for HIV infection or on the relationship between recurrent or persistent vaginal yeast infections and HIV infection, please contact your doctor or the CDC National AIDS HOTLINE at 1-800-342-AIDS (English), 1-800-344-7432 (Spanish), or 1-800-243-7889 (hearing impaired, TDD).

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SYMPTOMS OF VAGINAL YEAST INFECTIONS

There are many signs and symptoms of a vaginal yeast infection. They can include:

Vaginal itching (ranging from mild to intense);
A clumpy, vaginal discharge that may look like cottage cheese;
Vaginal soreness, irritation, or burning, especially during vaginal intercourse:

intercourse;
• Rash or redness around the vagina (vulvar irritation).

NOTE: Vaginal discharge that is different from above, for example, a yellow/green discharge or a discharge that smells "fishy," may indicate that you have something other than a yeast infection. If this is the case, you should consult your doctor before using MICONAZOLE NITRATE VAGINAL CREAM.

ARNINGS

This product is only effective in treating vaginal infection caused by yeast and in relieving vulvar itching and irritation associated with a yeast infection. Do not use in eyes or take by mouth.

DO NOT USE MICONAZOLE NITRATE VAGINAL CREAM IF YOU HAVE ANY OF THE FOLLOWING SIGNS AND SYMPTOMS. ALSO, IF THEY OCCUR WHILE USING MICONAZOLE NITRATE VAGINAL CREAM, STOP USING THE PRODUCT AND CONTACT YOUR DOCTOR RIGHT AWAY. YOU MAY HAVE A MORE SERIOUS ILLNESS.

FEVER (HIGHER THAN 100°F ORALLY)
PAIN IN THE LOWER ABDOMEN, BACK OR EITHER SHOULDER
A VAGINAL DISCHARGE THAT SMELLS DAD.

- A VAGINAL DISCHARGE THAT SMELLS BAD.

If there is no improvement or if the infection worsens within 3 days, or complete relief is not felt within 7 days, or your symptoms return within two months, then you may have something other than a yeast infection. You should consult your doctor.

If you may have been exposed to the human immunodeficiency virus (HIV, the virus that causes AIDS) and are now having recurrent vaginal infections, especially infections that don't clear up easily with proper treatment, see your doctor promptly to determine the cause of your symptoms and to receive proper medical care.

Mineral oil may weaken latex in condoms or in diaphragms. This cream contains mineral oil. Do not rely on condoms or diaphragms to prevent sexually transmitted diseases or pregnancy while using MICONAZOLE NITRATE VAGINAL CREAM.

Do not use tampons while using this medication.

Do not use in girls less than 12 years of age. If you are pregnant or think you may be, do not use this product except under the advice and supervision of a doctor. Keep this and all drugs out of the reach of children. In case of accidental ingestion, seek professional assistance or contact a poison control center immediately. Mineral oil may weaken latex in condoms or in diaphragms. This

One tube of vaginal cream containing miconazole nitrate 2%. Seven disposable applicators.

Final Printed Labeling ANDA 74-760 Educational Brochure

(Disposable Applicator-Back)

IMPORTANT: THE TUBE OPENING IS SEALED FOR YOUR PROTECTION. DO NOT USE IF THE TUBE SEAL HAS A HOLE IN IT OR IF THE SEAL CANNOT BE SEEN. RETURN THE PRODUCT TO THE STORE WHERE YOU BOUGHT IT.

DIRECTIONS FOR USE

Vaginal Application

Begin treatment at bedtime. Before going to bed:

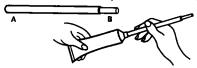
The first time you use a disposable applicator, pull the two pieces apart to see where the arrow is that indicates a full applicator. After locating the arrow, and before filling the applicator, push plunger "B" completely back inside "A". (Do not be concerned if the two come apart, they may easily be put back together.) See illustration.



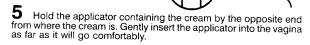
To open the tube, unscrew the cap. Turn the cap upside down and place the cap in the end of the tube. Push down firmly until the seal is broken (as shown).



3 Attach the applicator to the tube by pushing end "A" of the applicator over the neck of opened tube. Turn applicator, pushing down until applicator is firmly on the neck of the tube (as shown)



4 Hold applicator firmly on the tube neck. Squeeze the tube from the bottom. This will force the cream into the applicator. Do this until the inside portion of the applicator plunger "B" is pushed out to the tip of the "FULL" arrow or the beginning of the green band. Separate applicator from tube. (See illustration)





As shown in the pictures, this can be done while standing with your feet spread a few inches apart and your knees bent. Or, you can lie on your back with your knees bent. Once you are ready, push

the inside piece of the applicator in and place the cream as far back in the vagina as possible. Then remove the applicator from the vagina. You should go to bed as soon as possible after inserting the cream. This will reduce leakage.

You may want to use deodorant-free minipads or pantyshields during the time that you are using MICONAZOLE NITRATE VAGINAL

CREAM. This is because the cream can leak and/or you may see some discharge. DO NOT USE TAMPONS.

After each use, replace cap and roll tube from bottom (as shown).

Throw away the applicator after each use. <u>DO NOT FLUSH IN TOILET.</u> Use a new applicator for each dose.

Repeat steps 3 through 7 before going to bed on each of the next six evenings.

External Vulvar Application
If needed, use the cream twice daily as follows:

Squeeze a small amount of cream on to your finger.
 Gently apply the cream onto the skin (vulva) that itches and is irritated.

3. Repeat steps 1 and 2 each morning and evening as needed.

ADVERSE REACTIONS (SIDE EFFECTS)

The following side effects have been reported with the use of MICONAZOLE NITRATE VAGINAL CREAM: a temporary increase in burning, itching, and/or irritation when the cream is inserted. Abdominal cramping, headaches, hives, and skin rash have also been reported. If any of these occur, stop using MICONAZOLE NITRATE VAGINAL CREAM and consult your doctor.

FOR BEST RESULTS

11. Be sure to use all of the cream even if your symptoms go away before you have used all of the cream.

2. Use one applicatorful of cream at bedtime for seven nights in a row, even during your menstrual period.

3. Wear cotton underwear.

4. If your partner has any penile itching, redness, or discomfort, he should consult his doctor and mention that you are treating yourself for a vaginal yeast infection.

 15. Dry the outside vaginal area thoroughly after a shower, bath, or swim. Change out of a wet bathing suit or damp workout clothes as soon as possible. A dry area is less likely to encourage the growth of yeast.

6. Wipe from front to rear (away from the vagina) after a bowel

movement or urination.

Do not douche unless your doctor tells you to do so. Douching may

disturb the vaginal bacterial balance.

Do not scratch if you can help it. Scratching can cause more irritation and can spread the infection.

Discuss with your doctor any medication you are now taking. Certain types of medication can make your vagina more prone to infection

IF YOU HAVE A QUESTION

Questions of a medical nature should be taken up with your doctor.

ACTIVE INGREDIENT

miconazole nitrate 2% (100 mg per dose)

STORAGE

Store at room temperature 15° - 30°C (59° - 86°F). Avoid heat (over 30°C or 86°F).

Manufactured by: Perrigo Co. Allegan MI, 49010, U.S.A.

07/96 496053

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

74-760

MEDICAL REVIEW

DATE of ORIG. SUBMISSION:

OGD STAMP DATE:

DATE RECEIVED BY HFD-520:

DATE of 1st AMENDMENT:

DATE AMENDMENT RECEIVED:

DATE of 2nd AMENDMENT:

DATE of FIRST DRAFT:

DATE of SECOND DRAFT:

DATE COMPLETED:

SEPTEMBER 29,1995

OCTOBER 2, 1995

JANUARY 11, 1996

MARCH 20, 1996

APRIL 9, 1996

OCTOBER 29, 1996

OCTOBER 7, 1996

OCTOBER 7, 1996 OCTOBER 30,1996

DECEMBER 4, 1996

MEDICAL CONSULTATION FROM HFD-520

DIVISION OF ANTI-INFECTIVE DRUG PRODUCTS

Requested By:

Office of Generic Drugs

HFD-600

Applicant:

L. Perrigo Co.

117 Water St.

Allegan, Michigan 49010

APPEARS THIS WAY
ON ORIGINAL

Drug:

Miconazole Nitrate Vaginal Cream 2%

Drug Category:

Antifungal

Dose Form:

Cream

Route of Administration:

Vaginal

Dosage:

One applicatorful (100 mg/dose) nightly for 7 consecutive

nights

Materials Reviewed:

9/29/95 Submission

3/20/96 Amendment

10/29/96 Amendment (also 10/4/36 amendments)

PURPOSE:

The purpose of this ANDA is to obtain approval for a generic form of Miconazole vaginal cream, manufactured by L. Perrigo Co., for the treatment of vaginal candidiasis. L Perrigo Co. is requesting that this approval be given based on a bioequivalency study comparing the safety and efficacy of their product with that of Monistat-7® 2% vaginal cream, manufactured by Ortho Pharmaceuticals.

Background:

Vaginal Candidiasis is among the most commonly diagnosed gynecological infections. The products currently available for the topical treatment of this infection belong either to the imidazole class of drugs, such as clotrimazole, miconazole and others, or to the polyenes, such as nystatin. These agents are available in the form of creams or suppositories for vaginal insertion.

Miconazole is a synthetic imidazole derivative that is fungicidal in vitro against species of the genus Candida. In 1973 it was approved for use in the treatment of vulvovaginal candidiasis as a prescription vaginal cream for daily use in a 7- day regimen (Monistat -7® Vaginal Cream). This agent has been available since 1990 as an over -the -counter product after the Fertility and Maternal Advisory Committee of the FDA concluded that recurrent vulvovaginal candidiasis could be self-recognized and safely and adequately treated by the female consumer.

The Applicant desires to make available to the consumer Miconazole 2% vaginal cream which they believe to be comparable in safety and efficacy to the presently- marketed Monistat-7® 2%(Ortho) vaginal cream.

Clinical Study:

In order to obtain approval for their product, the Applicant performed one comparative clinical trial entitled "A RANDOMIZED DOUBLE BLIND COMPARISON OF THE CLINICAL EFFICACY OF PERRIGO AND ORTHO (MONISTAT-7®) MICONAZOLE NITRATE 2% VAGINAL CREAM IN PATIENTS WITH VULVOVAGINAL CANDIDIASIS" designed to establish bioequivalence between a generic miconazole 2% vaginal cream, one applicatorful/100 mg/nightly for seven consecutive nights, and the approved preparation, Monistat-7 ®2% vaginal cream, administered nightly for 7 consecutive nights.

Study Design:

The study was a randomized, double-blinded, multicenter clinical trial designed to compare the clinical, mycological and therapeutic efficacy of the two(2) aforementioned miconazole vaginal creams in two(2) parallel groups of patients with vulvovaginal candidiasis. Patients with documented candidiasis were randomly assigned to one of the two(2) treatment groups.

The study was conducted in accordance with the U.S. FDA "Draft Guidance for the performance of Bioequivalence Study for Vaginal Antifungal Products" (February 24,1990). The protocol was reviewed by the Bioequivalence Division of the FDA and the statistical portions of the protocol were developed in consultation with the Divisions of Bioequivalence and Biometrics of FDA. The study was monitored by who contacted the Investigators prior to the initiation of the study in order to review the procedures to be followed in conducting the study and in the recording of results. The trials were monitored "as frequently as necessary" to ascertain adherence to the protocol. At the conclusion of the study, was to return any unused supplies to the Sponsor.

Overview:

Potential Patients were to have had a screening assessment within 21 days prior to the initiation of the study in order to ascertain eligibility. This initial or Baseline Visit was to include a medical history, a brief physical exam, a gynecological exam including the obtainment of vaginal cultures for *Candida* species, *Neisseria gonorrhea*, *Chlamydia trachomatis* and *Gardnerella vaginalis*. A KOH prep was also obtained as well as a wet mount for *Trichomonas vaginalis*. Additionally, a urine b-HCG was performed.

If the patients were deemed eligible, a written informed consent was obtained. Patients were then randomized according to a predetermined block-type randomization scheme to receive one of the two formulations. Nine centers participated in the study and each center was randomized separately.

The patients received a supply of vaginal cream to be administered nightly for seven consecutive nights. The first day of therapy was Day One of the study. On Day One the patients were given a diary in which to record their medication usage including the time at which the medication was applied. Additionally they were to record any adverse events and the start and end of menses.

In order to establish clinical efficacy, evaluations of the affected areas were made at the preliminary visit (i.e. anytime within 21 days prior to **Day One**), to establish a baseline. The parameters evaluated included the presence or absence of the following signs (discharge, vulvar erythema, vaginal erythema, vulvar edema, vaginal edema, vulvar excoriation) and symptoms (discharge, itching, burning, irritation, dysuria, dyspareunia). The severity of each parameter was scaled on a 0-3 scale with 0=absent to 3=severe. A total symptom score and a total sign score were calculated with a range of 0 to 18 respectively.

The first post-treatment visit (V1) was scheduled 7 days after the last treatment day, (range: 7-10 days) or for days 14-17 of the study. At this visit, the diaries were collected and reviewed, remaining supplies were collected and the patients were questioned about their symptoms, adverse drug reactions and unprotected sexual activity. The presence of clinical signs of vaginitis were assessed by the Investigator and a specimen was obtained for a KOH smear and fungal culture. Clinical and mycologic responses were recorded for each patient. Patients found to have a positive KOH smear or culture at V1 were recorded as failures and were not required to return for a second post-treatment visit.

The second post-treatment visit(V2) was scheduled for 28 days, (range: 28-34 days), after the last treatment day or days 35-41 of the study. At that time a gynecologic exam was performed, specimens were obtained for a KOH smear and fungal culture and the clinical signs of vaginitis were assessed. Patients were again requested to assess their symptoms and were questioned about sexual activity.

Medical Officer's Comment: The Medical Officer found that the way in which the applicant's handling of the post-treatment visits was not consistent with their stated intent. Although visits were planned within ranges accepted by this Agency, the patients were evaluated both early and late for both visits, well beyond the acceptable ranges, thus making them ineligible for evaluation. This practice diminished the number of evaluable patients as will be demonstrated in the Reviewer's assessment.

On October 1, 1996, the Medical Officer spoke with the Perrigo Company representative, Ginger Green and requested verification of the return visit dates. This information was provided, initially by phone and then by fax on Oct. 29, 1996, and it was noted that the return visit dates represented the number of Days after completion of therapy, thus rendering unevaluable, 22 patients from the Ortho Monistat arm and 27 patients on the Perrigo arm.

Inclusion Criteria:

To be included in the study, patients had to fulfill all of the following criteria:

- Female patients between 18 and 50 years of age.
- Sexually active patients must fulfill one of the following:
 - a. take oral contraceptives
 - b. use other reliable forms of contraception (barrier and spermicide, IUD
 - c. post-hysterectomy
 - d. one year post-tubal ligation
 - e. have only one sexual partner who must be at least one year post vasectomy;
- must be healthy aside from vaginal candidiasis.
- must agree to abstain from using vulvovaginal products (including lubricants) or medications during the course of treatment and until after the final cure assessment exam.
- must agree that all vagino-penile contact must be protected with a condom during the course of treatment and until after the final cure assessment exam.
- must have a negative beta-HCG urine pregnancy test prior to enrollment.
- Patients who expect their menses at any time during treatment or prior to V1 must agree to wait until menses are over to start treatment.
- must be able to complete all visits.
- must have an informed consent.
- must have at least one of the symptoms of vaginitis, as assessed by the patient (discharge, itching, burning, irritation, dysuria. dyspareunia).
- must have at least one of the clinical signs of vaginitis, as assessed by the investigator (discharge, vular/vaginal erythema and or edema, vulvar excoriation).
- must have a positive KOH prep and culture for Candida species.
- no concomitant infection of the vagina or vulva.

Exclusion Criteria:

- The presence of any of the following, excluded the patient from the study:
- Known sensitivity to Miconazole Nitrate or similar drugs.
- Post or peri-menopause.
- History of drug or alcohol abuse in the past year.
- Significant chronic illness of the cardiovascular, hepatic, gastro-intestinal, or central nervous system.
- Pregnancy or breast-feeding.
- History of genital Herpes Simplex infection.
- Vulvovaginal infections other than candidiasis. In particular, patients with positive cultures for Trichomonas vaginalis, Chlamydia trachomatis, Neisseria Gonorrhea, Gardnerella vaginalis.
- Use of any vulvovaginal product or medication within the 48 hours prior to the first dose or at any time during treatment.
- Use of any systemic or topical anti-infective, anti-mycotic, cortico-steroid or immuno-suppressive drugs in the previous week.
- Anatomic anomaly likely to impede the therapeutic effects.
- Personality disorders which would preclude valid informed consent or compliance.
- Persistent vaginal infections in the previous three months.

Medical Officer's Comment: The Medical Officer's found that that 5 patients included in the efficacy analysis by the Applicant were receiving concomitant antibiotic therapy, (Perrigo024,045, and Ortho139,151,245) and felt that they should be excluded based on a protocol violation.

Evaluability Criteria:

Patients were evaluable for the efficacy analysis if they had satisfied all if the eligibility criteria, received the study medication as per protocol and had returned for both post-treatment visits within the stated intervals. The Medical Officer decided a priori to accept a range of 6-11 days post therapy for visit 1 (or days 13-18 of the study) and a range of 27-35 days post therapy for visit 2 (or days 34-42 of the study).

The protocol did not provide for a minimum number of days required on therapy necessary for evaluability. The Medical Officer included all patients who received a minimum of 3 days of therapy in the efficacy analysis.

Patients were evaluable for safety if they received at least one dose of either study drug, even if they subsequently discontinued treatment.

Endpoints/Cure Assessments:

The protocol states the following as definitions of cure/efficacy:

Mycological Cure:

A negative KOH prep and culture for Candida species at both of the post-treatment visits.

Clinical Cure:

Significant improvement in the signs and symptoms that were present at the initial visit by V1 and resolution by V2. Additionally, the sponsor states that if no significant improvement or a worsening is observed at V1, the patient will be considered a treatment failure and discharged from the study.

Medical Officer's Comment: The review revealed that 6 patients, considered clinical failures by the applicant (Ortho 190,155, Perrigo 219,116,052,235) could have been clinical cures, given the presence of minimal signs and symptoms at V2. Because the information was not provided in the submission, the MO communicated by phone with Ginger Green on 10/4/96 and requested more information. This information was provided, initially by fax and then as an amendment. The MO was able to independently verify the evaluability of the above patients from the fax submission dated October 30, 1996. Based on the line listings provided, patients 116, 052, 219, 190, and 155 were considered cures.

Overall/Therapeutic Outcome:

A patient who is considered to have both clinical and mycological cure will be used to determine the overall cure rate.

The reviewing Medical Officer considers the clinical and mycological cure rates as secondary efficacy variables and that the primary efficacy variable to be the therapeutic cure rate.

Safety evaluation:

The patients and investigators were required to report all adverse events in a timely fashion. The investigator determined the intensity of the event and its relation to the study drug.

Study Results:

The study was conducted at 9 clinical sites in the province of Quebec, Canada. There were a total of 12 investigators, 8 of whom were Ob/Gyn's, three General Practitioners and one Internist with Ob/Gyn privileges. A total of 221 patients were enrolled, 197 completed the study and 165 were deemed evaluable for the efficacy analysis by the Investigator. Of these patients, 110 were randomized to receive the Perrigo vaginal cream and 111 to receive the Ortho Monistat-7 vaginal cream.

As stated above all 221 patients were included in the safety analysis and 165 were deemed eligible for the efficacy analysis. 56 patients were excluded from the efficacy analysis for a variety of protocol violations, including 12 with a negative KOH prep at the initial visit, 17 who had a missing KOH prep at any visit, 13 who had violations of the inclusion/exclusion criteria, 6 protocol violations while on study, 3 who were non-compliant, 1 pregnancy and 4 patients failed to return. Of the 165 patients included in the efficacy analysis, 83 were randomized to the Perrigo vaginal cream and 82 to the Ortho vaginal cream.

Below is the Applicant Analysis of Patient Evaluability, which includes the investigators, the numbers of enrolled patients and evaluable patients by Center.

TABLE 1

	PERRIC	SO RECIPIENTS			ITS EVALI				IALL REG	CIF	PIENTS	1
Center/Investigator	EVAL.	ENROLL		% EVAL	EVAL		ENROLL	% EVAL.	EVAL		ENROLL	% EVAL
	i	30	43	70%		30	43	70%		80	. 86	70%
/	1	14	21	67%	1	16	19	84%	;	30	40	75%
		4	6	67%		3	6	50%		7	12	58%
1		1	2	50%		2	3	67%		3	5	60%
I I		11	12	92%	1	7	11	64%		18	23	78%
l		7	9	78%	ŀ	5	9	56%	1	12	18	67%
		8	8	100%	Į	7	8	88%		15	16	94%
		2	2	100%	1	4	4	100%	1	6	6	100%
		6	7	86%	Į.	8	8	100%	1	14	15	
TOTAL		83.	110	75%	1	82	111	74%	1	65	221	75%

Reasons for Exclusion by Applicant:	Perrigo	Ortho
Negative KOH Prep/culture on admission:	6	6
Missing KOH Prep/culture at any visit:	10	7
Protocol violation (incl./excl.):	3	10
Lost to Follow-up:	2	2
On Study Protocol Violation:	5	1
Patient Non-compliance:	1	2
Patient found to be pregnant:	1 .	0
TOTAL:	28 *	28 *

There were large differences in the sample sizes collected from each Center, however the sponsor felt that the overall rates of cure/failure were similar and therefore the data from all centers was pooled for statistical analysis.

^{*}The MO found it impossible to explain the difference of 1 patient between the 2 groups excluded by the Applicant. There should only be 27 patients excluded from the Perrigo arm and 29 from the Ortho, however it does not appear as if this difference is significant.

The Medical Officer's Analysis of the patients is presented in Table 2:

TABLE 2

			Indi		,						
		M	IO'S EVA	LUABILITY			lau se		MTC		1
	PERRIGO RECIPIENTS			ORTHO RECI			ALL RE			0/ 17/	,,,-
		9/	EVAL	EVAL.	ENROLL	% EVAL	EVAL	El	VROLL		
Center/Investigator		43	58%		43	63%	1	52	8	3 6	60%
	25	43 21	10%		19	37%		9	4	40	23%
							1				1
	•	6	17%] 1	6	17%	4	2	• '	12	17%
	1	2	0%	1	√ 3	33%	,	1		5	20%
	9	12	42%	1	11	36%		9	:	23	39%
]	14	67%	1	, <u> </u>	22%		8		18	44%
<i>i</i> –	1 5	3	88%		Ē	75%		13		16	81%
1	7	0		1		509		4		6	67%
	2	2	1009 719		7 8			12		15	80%
		440	489		7 11			110	2	21	50%
TOTAL	53	110	407	۳ ۳			•				

Of note is that of the 83 Perrigo patients included by the Applicant in the patients evaluable for efficacy, only 53 were acceptable by the MO.

Of the 83 Perrigo patients, 2 Patients (045, 245), were excluded because of concurrent systemic Antibiotic usage, 27 were excluded because of too early or too late follow-up visits and 1, (No. 152), was excluded because she self-collected her culture at V2. Hence 30 Perrigo patients were deemed unevaluable.

Of the 82 Ortho patients included by the Applicant in the efficacy analysis, only 57 were deemed evaluable by the Medical Officer and 25 were deemed unevaluable: 3, (024,151,139), were excluded for concurrent systemic Antibiotic usage and 22 for untimeliness of the revisits.

Below, in tabular form, (Table 3), is a listing of the patients who were excluded by the Medical Officer for protocol violations (the dates of the return visits are noted where they were out of range as well as the concomitant antibiotic usage. In some cases the patients could have been excluded for more than 1 violation):

TABLE 3
MEDICAL OFFICER'S TABLE OF NONEVALUABILITY

Ortho Arm: (n=25)

Patient Number	V. (Dave 13-17 a)		Concountant
021	accepted	a(scepted)	Anúbiote dage
	20	48	NO
024			YES
046	20	37	NO
050	30	37	NO
056	19	41	NO
061	23	50	NO
064	11	39	NO
073	11	37	NO
109	9	39	NO
115	19	No V2	NO
118	11	30	NO
121	19		NO
139		38	YES
151			YES
160	19	48	NO
166	·	49	NO
170	20	41	NO
174	11	31	NO
182	21	49	NO
187	24	52	NO
188		64	NO
081	11	26	NO
242		31	NO
236	21	43	NO
237	21	43	NO

TABLE 3

Perrigo Arm: (n-30)

Patical Number	XI (Days) -18 accepted	W2(Dark 4-)(accepted)	Concomitant Annibiotic Usage
016	11		NO
020		29	NO
022	12	54	NO
023	21	87	NO
029		46	NO ·
045	21	39	YES
051	20	37	NO
053		30	NO
055	22		NO
057		53	NO
062	10	43	NO
080	12	39	NO
107	21	37	NO
113		46	NO .
120	11		NO
123	19		NO
124		33	NO
126		44	NO
142		31	NO
152		40	NO, but self-
			collected specimen
157	18	47	NO
167		45	NO
168		44	NO
173	11	37	NO
178		47	NO
185		44	NO
186	12	39	NO
197		51	NO
241	11	39	NO
245		37	YES

Demographics:

The demographics of the enrollees have been provided and reveal no significant differences between Centers. It is this Reviewer's opinion that it is acceptable to pool the data as there do not appear to be significant differences between the populations enrolled. It was noted that there were differences in the quality of reporting between centers. This variability was not considered significant.

Below is the Applicant's Table of Demographic Data for evaluable patients:

TABLE 4

	Period	Örilic
777 : 14 (1-a)	63.0	62.7
Mean Weight (kg)	n=(82)*	(n=82)
+	(40.8-120.3)	(45.4-113.9)
(range)	160.1	161.2
Mean Height (cm)	(n=74)*	(n=73)*
	(110.0-178.0)	(125.0-177.0)
(range)	32.0	31.8
Mean age (years)	(n=83)	(n=82)
	(18.0-49.0)	18.0-50.0)
(range)	(10.0-15.0)	1

^{*}The height was not determined for 9 patients on both arms of the study and the weight was not determined for 1 patient who received the Perrigo drug.

Efficacy Analysis:

The results as submitted by the Applicant are shown below:

TABLE 5
APPLICANT"S EFFICACY ANALYSIS

Ereitment Group	Remarks	Office
Mycological Cure	70/82 (85.4%)	66/82 (80.5%)
KOH/culture V1	73/83 (88.0%)	75/82 (91.5%)
KOH/culture V2	71/75 (94.7%)	66/78 (84.6%)
Clinical cure		
V1	81/83 (97.6%)	78/82 (95.1%)
V2	68/75 (90.7%)	75/78 (96.2%)
Therapeutic Cure	58/83 (69.9%)	57/82 (69.5%)

It should be noted that mycological cure was defined as negative KOH Preps and cultures for Candida species at both V1 and V2. Clinical cure rates were based on assessments indicating improvement at V1 and complete eradication of all signs and symptoms at V2. Therapeutic Cure could only be determined at the last visit (V2). Patients who were considered treatment failures at V1 did not return for V2 and therefore the number of patients evaluated at V2 is smaller than the number evaluated at V1 in both treatment groups. Additionally the culture information was lost for 1 Perrigo patient (086) at V1 and thus the number of patients evaluated for the Perrigo arm of the study, decreased by 1. The above is a reproduction of the Applicant's table. Although the Applicant provided the above italicized explanation for the change in the Perrigo denominator for 83 to 82, it is not clear to the MO, why the denominator was changed. However, this change does not appear to alter the results or to be of significance.

Medical Officer Results:

Mycological cure was assessed at V1 and V2. Clinical cure, as evidenced by improvement in the signs and symptoms score was assessed at V1 and as evidenced by a 0-3 sign and symptom score was assessed at V2. Six patients, (4 on the Perrigo arm and 2 on the Ortho arm) were assessed in more detail because of the possibility of a change in their final status re their sign/symptom scores. Three of the Perrigo patients and two of the Ortho patients were reassessed as clinical cures by the Medical Officer because of the presence of a low score on the final clinical assessment. This score represented the presence of a discharge only, without other findings and in the presence of negative cultures.

Therapeutic cure could only be assessed at V2. This assessment is presented in tabular form below.

Patients who were considered mycological treatment failures at V1 were withdrawn from the study. No data were obtained by the sponsor for these patients at V2 and therefore they were excluded from the therapeutic efficacy analysis by the Applicant. The Medical Officer determined that these patients should be included in the Therapeutic Analysis, as failures.

TABLE 6
MEDICAL OFFICER"S EFFICACY ANALYSIS

		WIEDIO	Pemgo		CACY ANALYS	Ortho	
Freatmer	it Group		~ ····		Cure	No. eval.	
1		Cure	No. eval				
				77.40/	47	57	82.5%
Mycolog	ical Cure	41	53	77.4%		-	
					52	57	91.2%
KOH/Cu	lture V1	43	52	82.7%		1	
						57	84.2%
KOH/Cu	Iture V2	42	53	79.2%	48	 	<u> </u>
				1		57	91.2%
Clinical	V1	52	53	98.1%	52	37	01.270
Cure				 			
		40	53	75.5%	48	57	84.2%
Clinical Cure	V2	40		70.070			-
			<u> </u>	 +		57	75.4%
Therap	eutic cure	40	53	75.5%	43		1
	Τ			1			

Safety Evaluation:

71 adverse events were recorded for patients who received the Perrigo product and 74 for those who received the Ortho product. Of these, 2 were considered serious by the Investigator and were judged not to be related to the study medication. The Medical Officer concurs with the Investigator's opinion after reviewing the case report forms for these 2 events.

Presented below, in tabular form, (Table 7), is a summary of the adverse events reported and their causal relationship to the study medication.

TABLE 7

ADVERSE EVENTS (according to Applicant)

f		according to Applicant	· · · - · · · · · · · · · · · · · ·
Symptoms	Perrigo	Ortho	Relationship
Rash		1	unrelated
Nausea		1	unrelated
vulvar ulcer		1	unrelated
swelling		1	unrelated -
dark stool		1	unrelated
staining	1		unrelated
abdominal pain	8	6	unrelated
cervical Chlamydia	1		unrelated
gastritis	1		unrelated
cold sensation	3		remote
burning	30	24	possible
itching	14	19	possible
discharge	1	1	unrelated
vaginal bleeding	1		unrelated
urinary	3	3	unrelated
frequency/UTI			
headache	1	6	unrelated
URI symptoms	7	10	unrelated

Total 71 74

As noted in Table 7, there were 71 adverse events in 40 patients on the Perrigo arm and 74 in 41 patients on the Ortho arm.

90% Confidence Interval

TABLE 8

ANDA NUMBER:

74-760

TREATMENT INDICATION:

vaginal

candidiasis

TIME OF ASSESSMENT:

VISIT 2

CLINICAL/MICRO?:

therapeutic

	Success	Number of	Number of	
	Rate Evaluable		Successes	
		Pts.		
Test drug	0.755	53	40	
Comparator	0.754	57	43	
Difference	-0.000	Diff. in $\% =$	-0.03	
SE(d)	0.082			

W/ CONTINUITY CORRECTION FACTOR:

90% CI= {-15.30, 15.36}

(In Percentages)

WITHOUT CORRECTION FACTOR:

90% CI= { -13.48 ,

13.54}

The 90% confidence interval for the primary efficacy variable of the rapeutic cure rate is within the required interval of ± 0.20 as illustrated above.

Summary:

This was a randomized double-blinded, multi-center clinical trial undertaken to compare the safety and efficacy of a generic form of Miconazole cream, manufactured by L. Perrigo Co., for the treatment of vulvovaginal Candidiasis. The comparator treatment regimen was Monistat-7®, miconazole vaginal cream, manufactured by Ortho Pharmaceuticals.

221 patients were enrolled and randomly assigned to a treatment arm. Of these, 165 were deemed eligible for the efficacy analysis by the Applicant. 83 patients received the Perrigo drug and 82 received Monistat-7®. The reviewing Medical Officer excluded 2 patients from the Perrigo arm because of concurrent antibiotic usage, one patient because she self-collected her final specimen and 27 because of failure to present for follow-up within the extended intervals permitted in the evaluation of vaginal Antifungal products. Additionally, from the Ortho arm, 3 patients were excluded because of concurrent antibiotic usage, and 22 for failure to present within the aforementioned time intervals. Therefore the Medical Officer considered 53 Perrigo patients and 57 Ortho patients evaluable for efficacy.

In the Applicants' analysis, patients who were considered treatment failures at V1 were not included in the number of evaluable patients at V2. The Medical Officer determined that these patients were evaluable at V2 and carried forward as treatment failures. Additionally, the MO, disagreed with the Applicant's scoring of 3 Perrigo patients and 2 Ortho patients as clinical failures. A review of the signs and symptoms revealed that these patients were clinical cures. Otherwise, the MO agreed with the Applicant's scoring of cures and treatment failures, as provided in the 3/20/96 and the 10/29/96 amendments.

Mycological Cure Rates reported by the Applicant for V2 were 85.4% for the Perrigo product and 80.5% for the Ortho. The Medical Officer found a 77% cure rate for the Perrigo group and an 84% cure rate for the Ortho group.

Clinical cure rates reported by the Applicant for V2 were 90.7% for the Perrigo product and 96.2% for the Ortho product. The MO found a 75% cure rate for the Perrigo product and an 84% for the Ortho product at V2.

Therapeutic/overall cure rates reported by the Applicant were 69.9% for the Perrigo treatment group and 69.5% for the Ortho treatment group. The MO found that the therapeutic cure rates were 75% for the Perrigo group and 75% for the Ortho group. Using the 90% CI approach, the limits (using correction for continuity) around the difference between the 2 treatment arms are (-15.30, 15.36).

The data submitted by the Applicant have been verified and reanalyzed by the reviewing Medical Officer and a statistical consultation has been requested. The criterion for establishing bioequivalency for generic drugs is that the upper and lower limits of the 90% confidence interval of the difference between the 2 products be within the interval of ±0.20. In this submission the 90% confidence interval for the primary efficacy variable (therapeutic cure) has been met.

Conclusion:

The formulations of Miconazole vaginal cream manufactured by the L.Perrigo and Co. and Ortho Pharmaceuticals Corp. are equivalent in safety and efficacy for the treatment of recurrent vulvovaginal candidiasis for 7 days.

Recommendation:

The reviewing Medical Officer recommends approval of ANDA 74-760

Regina Alivisatos, MD Medical Officer

CC: ANDA 74-760

HFD-630

HFD-340

HFD-520

HFD-520/MO/Ralivisatos

HFD-520/Biostats/DLin

HFD-520/CSO/STrostle

Concurrence Only: HFD-520/Dir./DFeigal

HFD-520/SMO/BLeissa

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

74-760

CHEMISTRY REVIEW(S)

- 1. CHEMISTRY REVIEW NO. 1
- 2. ANDA # 74-760
- 3. NAME AND ADDRESS OF APPLICANT

L. Perrigo Company 117 Water Street Allegan, MI 49010

4. LEGAL BASIS FOR SUBMISSION

The firm has indicated that in their opinion and to the best of their knowledge there are no patents that claim the listed drug product referred to in this application or that claim a use of the listed drug product and there is no market exclusivity information on file for the listed drug product MONISTAT 7 Combination pack.

NOTE:

The combination pack is not the RLD. Firm will be told to correct.

5. <u>SUPPLEMENT(s)</u>

6. PROPRIETARY NAME

N/A

N/A

7. NONPROPRIETARY NAME

8. <u>SUPPLEMENT(s) PROVIDE(s) FOR:</u>

Miconazole Nitrate

N/A

9. AMENDMENTS AND OTHER DATES:

Original 9/29/95 Amendment 11/1/95 Amendment 12/22/95 Amendment 1/31/96

10. PHARMACOLOGICAL CATEGORY

11. Rx or OTC

treatment of vaginal yeast infections

OTC

12. RELATED IND/NDA/DMF(s)

DMF's _____ 13. DOSAGE FORM

14. POTENCY

Cream

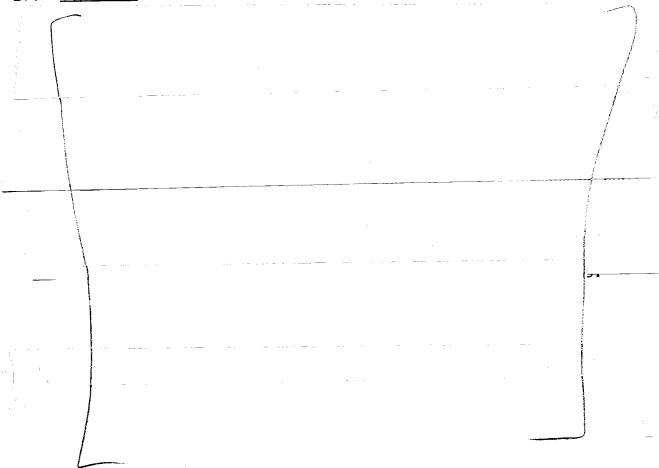
2%

15. CHEMICAL NAME AND STRUCTURE

1H-Imidazole, 1-[2-(2,4-dichlorophenyl)-2-[(2,4-dichlorophenyl)methoxyl]ethyl]-, mononitrate

16. RECORDS AND REPORTS

17. COMMENTS



18. <u>CONCLUSIONS AND RECOMMENDATIONS</u>

The application is not approvable.

19. REVIEWER:

DATE COMPLETED:

Nashed E. Nashed, Ph.D.

3/15/96

Supervisor: Paul Schwartz, Ph.D.

5/15/96

Redacted _____

pages of trade secret and/or

confidential

commercial

information

- 1. CHEMISTRY REVIEW NO. 2
- 2. ANDA # 74-760
- 3. NAME AND ADDRESS OF APPLICANT

L. Perrigo Company 117 Water Street Allegan, MI 49010 APPEARS THIS WAY ON ORIGINAL

4. LEGAL BASIS FOR SUBMISSION

In the firm opinion and to the best of their knowledge there are no patents that claim the listed drug product referred to in this application or that claim a use of the listed drug product.

The firm has revised the exclusivity statement to indicate that there is no market exclusivity for Monistat 7 vaginal cream.

5. SUPPLEMENT(s)

6. PROPRIETARY NAME

N/A

N/A

7. NONPROPRIETARY NAME

8. <u>SUPPLEMENT(s) PROVIDE(s) FOR:</u>

Miconazole Nitrate

N/A

9. AMENDMENTS AND OTHER DATES:

Original 9/29/95

Amendment 11/1/95

Amendment 12/22/95

Amendment 1/31/96

Amendment 3/20/96 Amendment 8/9/96

Amendment 10/16/96

Amendment 10/29/96

Amendment 4/15/97

APPEARS THIS WAY ON ORIGINAL

10. PHARMACOLOGICAL CATEGORY

11. Rx or OTC

treatment of vaginal yeast infections

OTC

12. RELATED IND/NDA/DMF(s)

DMF's_____

13. DOSAGE FORM

14. POTENCY

Cream

2%

15. CHEMICAL NAME AND STRUCTURE

Miconazole Nitrate. $C_{18}H_{14}Cl_4N_2O$ -HNO₃. 479.15. 1*H*-Imidazole, 1-[2-(2,4-dichlorophenyl)-2-[(2,4-dichlorophenyl)methoxy]ethyl]-, mononitrate. 22832-87-7. USP 23, page 1026.

- 17. COMMENTS
- 18. CONCLUSIONS AND RECOMMENDATIONS

APPEARS THIS WAY ON ORIGINAL

The Application is APPROVABLE.

19. REVIEWER:

DATE COMPLETED:

|51

4/21/97

Nashed E. Nashed, Ph.D.

4/16/97

Supervisor: Paul Schwartz, Ph.D.

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confidential

commercial

information

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

74-760

STATISTICAL REVIEW(S)

Statistical Review and Evaluation (Consult)

ANDA#:

74-760

DEC 9 1996

Applicant:

L. Perrigo Co.

Name of Drug:

Miconazole Nitrate Vaginal Cream 2%

Documents Reviewed:

Medical Officer's Review, received Dec. 4, 1996

Indication:

Vaginal Candidiasis

Medical Input:

Dr. Regina Alivisatos, HFD-520

A. INTRODUCTION

This is a Generic Drug Product. Therefore, we use the 90% confidence interval (CI) for determining therapeutic and related equivalency statements. This is the same as using two one-sided 95% confidence intervals. The allowable confidence interval length in Generic Drug trials is 20% for cure/failure type trials and within 20% of the active control mean response for other type response variables. Since the concept is that the new agent is not to be either better than or worse than the control agent, the 90% CI must be completely contained within the -20% and +20% delta values.

Generic Drug Division trials of vaginal care products are generally standardized, therefore, a full statistical evaluation of the total submission is only done if problems in conduct or reporting of trial results are noted by the Reviewing Medical Officer (RMO). When there are no problems, our review is confined to check statistical results developed by the RMO or to compute confidence intervals on data as derived by the RMO. Since clinical trial data is not provided to the statistician, no evaluation of consistency among (between) investigators by treatment can be made. If the odds ratios differ significantly among the investigators, the following evaluation will not account for this.

B. CALCULATIONS AND EVALUATION

All calculations are based on the RMO's data as supplied on December 4, 1996. All confidence interval results are presented as two-sided 90% confidence intervals in the format $_{nt,\,nc}(CI)_{pt,\,pc}$, where n_t and p_t are respectively the sample size and success rates for the test agent (Perrigo's product - miconazole nitrate vaginal cream 2%) and n_c and p_c are similarly defined for the control agent (Ortho's product - Monistat-7® 2% vaginal cream).

The therapeutic response rate is the primary efficacy criterion and the mycological and clinical response rates are the secondary efficacy criteria.

The following CIs are based on the Medical officer's data. For clinical response at the first post-treatment visit (V1), the Perrigo versus Ortho 90% CI is $_{53,57}$ (-.018, .156) $_{.98,91}$. At second post-treatment visit (V2) the Perrigo versus Ortho 90% CI is $_{53,57}$ (-.23, .056) $_{.75,84}$. For mycological response at the second post-treatment visit (V2), the Perrigo versus Ortho 90% CI is $_{53,57}$ (-.195, .093) $_{.77,82}$.

For therapeutic response at second post-treatment visit (V2), the Perrigo versus Ortho 90% CI is $_{53,57}$ (-.153 .154) $_{.75,.75}$.

C. CONCLUSIONS (Which May be Conveyed to the Sponsor)

Except the clinical cure rates at second post-treatment (V2), all of the 90% CIs for the secondary efficacy variables of mycological and clinical cure rates do meet the Generic Drug equivalency criteria of \pm 0.20. For the primary efficacy response, the 90% CIs for the therapeutical cure rates also meet the Generic Drug equivalency criteria of \pm 0.20.

The results of the analyses of data derived from the RMO's review support the sponsor's claim that their formulation of Miconazole nitrate vaginal cream 2% is therapeutically equivalent to that of Monistat-7® 2% (Ortho) vaginal cream.

ISI 12/9/96

Daphne Lin, Ph.D. Acting Team Leader, Biometrics IV

cc:

Orig. ANDA 74-760

HFD-520

HFD-520/Dr. Feigal

HFD-520/Dr. Leissa

HFD-520/Dr. Alivisatos

HFD-520/Mr. Trostle HFD-630/Ms. Parise

HFD-725/Dr. Harkins

HFD-725/Dr. Lin

Chron.

This review contains two pages.

WordPerfect 6.1/A74760.wp6/12-9-96

THE PERRIGO COMPANY ANALYTICAL SERVICES SPECIAL ASSAY REPORT

No. 10221

SAMPLE (S): MICONAZOLE NITRATE VAC	GINAL CREAM 2%
PRODUCT CODE: 214AA	LOT: 4BH172
SOURCE:	REQUESTED BY:
TESTED BY:	REFERENCE: AD159p2,3
СОММ	ENTS
Analytical was requested by	to compare the physical

Analytical was requested by ______ to compare the physical characteristics of Perrigo's Miconazole Nitrate Vaginal Cream 2% to marketed products from two other manufacturers. The samples included Perrigo's test batch(PC#214AA, Lot#4BH172) and the reference batch(Monistat 7, Lot#24B904B) used in the bio-equivalency study.

TESTS	PERRIGO Lot#4BH172	COPLEY Lot#4SF873	Monistat 7 Lot#24B904B
WATER			
SOLIDS			
VISCOSITY			
рĦ			
SPECIFIC GRAVITY			

PREPARED	BY: /S/	DATE:	11/7/85	CKD BY	: ISL
CODIEC.	•	Confidence of the Confidence o	7.77.05 - 45 marks		

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

74-760

BIOEQUIVALENCE REVIEW

OFFICE OF GENERIC DRUGS DIVISION OF BIOEQUIVALENCE

ANDA/AADA # 74-760 SPONSOR: L. Perrigo Co
DRUG AND DOSAGE FORM: Miconazole Nitrate Vaginal Cream STRENGTHS(s): 2% Cream
TYPE OF STUDY: Comparative Clinical Study
STUDY SITE:
STUDY SUMMARY: Bioequivalence between the test and reference (Ortho's, 2% Vaginal creams) products was determined on the basis of comparative clinical study. The medical and statistical evaluations indicate, that except for clinical cure rate on the third visit, mycologic, clinical and therapeutic cure rates for Perrigo and Ortho miconazole nitrate vaginal creams are equivalent, and the products meet the criteria of 90% confidence interval of 80-120%. No serious adverse reactions were observed.
L. Perrigo and Ortho's, 2% vaginal cream formulations are qualitatively identical, but varied quantitatively. All inactive ingredients are within the IIG 1996 limits
Physicochemical properties for test, Copley (generic), and reference
The study was found acceptable by the Division of Anti-Infective Drug Products, by the Medical Statistician, and by the Division of Bioequivalence.
DISSOLUTION: Not required.
PRIMARY REVIEWER: S.P.Shrivastava, Ph.D. BRANCH: II
7.7
INITIAL DATE 3/5/97
BRANCH CHIEF: Shriniwas. G. Nerurkar, Ph.D. BRANCH: II
INITIAL: DATE 3 6 1997
DIRECTOR
DIVISION OF BIOFOUTT ALENCE: Nicholas M. Fleischer, Ph.D.
INITIAL: \S/ IE 3/6/97
DIRECTOR
OFFICE OF GENERIC DRUGS:
INITIAL SAIL 197

(NOT TO BE RELEASED UNDER F.O.I.)

Table 1. Comparative Formulation

<u>Ingredients</u>	L. Perrigo mg/g	Ortho USA mg/g
Miconazole nitrate, USP	20.0	20.0
Benzoic Acid USP		PNG ¹
BHA		PNG¹
Glyceryl Monostearate		PNG ¹
Mineral Oil, NF		PNG ¹
Peglicol 5 Oleate		PNG ¹
Pegoxol 7 Stearate	•	PNG ¹
Purified Water, USP		
•		

¹ Potency not given.

ANDA # 74-760 Miconazole Nitrate Vaginal Cream, 2% Reviewer: S. P. Shrivastava WP # 74760S.995 L. Perrigo Co. Allegan, MI Submission Date: September 29, 1995 3/20/96; 10/1/96 10/4/96; 10/29/96

REVIEW OF A BIOEQUIVALENCE STUDY

The firm has resubmitted the comparative clinical study for its OTC miconazole nitrate vaginal cream, 2%, which was reviewed by the Division of Anti-Infective Drug Products (HFD-520) and Biometrics IV (HFD-725). The consults' reviews are attached (Attachments 1-2). Comparative composition of the formulations are given in Table 1.

COMMENTS

- 1. There are three evaluable parameters considered by the Medical Officer at FDA: clinical cure rate, mycological cure rate, and therapeutic cure rate. The medical and statistical evaluations indicate, that except for clinical cure rate on the third visit, mycologic, clinical and therapeutic cure rates for Perrigo and Ortho miconazole nitrate vaginal creams are equivalent. The parameter values were obtained at second (V2) and third (V3) visits, and were statistically analyzed using 90% CI criteria.
- 2. The inactive ingredients in L. Perrigo's 2% miconazole nitrate vaginal cream, and Ortho's Monistat-7^R 2% vaginal cream, are qualitatively identical and quantitatively different. All inactive ingredients are within the IIG 1996 limits

All the second of the second o

- 3. The physicochemical properties including viscosity, pH and specific gravity of L. Perrigo, Copley (generic), and Ortho (innovator) products are quite similar.
- 4. The lot size was

RECOMMENDATION

The comparative clinical study conducted by L. Perrigo Co., on its miconazole nitrate vaginal cream, 2%, Lot # 4BH172, comparing it to Ortho's Monistat-7 Cream, 2%, Lot # 24C909 has been found acceptable by the Division of Anti-Infective Drug Products, and by the Division of Bioequivalence. The study demonstrates that L. Perrigo's miconazole nitrate vaginal cream, 2%, is bioequivalent to the reference product, Monistat-7^R vaginal cream, 2%, manufactured by Ortho.

The firm should be informed of the comment #1 and recommendation.

Division of Bioequivalence
Review Branch II

RD INITIALED SNerurkar
FT INITIALED SNerurkar
Concur:

Date: 36199

Rabindra N. Patnaik, Ph.D.

Acting Director
Division of Bioequivalence

Attachment-3

SPS/sps/2-12-97/74760S.995

S. P. Shrivastava, Ph.D.

cc: ANDA #74-760 (Original, Duplicate), HFD-655 (SNerurkar, SShrivastava), Drug File, Div. File

(NOT TO BE RELEASED UNDER F.O.I.)

Table 1. Comparative Formulation

Ingredients	L. Perrigo mg/g	Ortho USA mg/g
Miconazole nitrate, USP	20.0	20.0
Benzoic Acid USP		PNG ¹
ВНА		PNG ¹
Glyceryl Monostearate		PNG^1
Mineral Oil, NF		PNG^{1}
Peglicol 5 Oleate		PNG^{1}
Pegoxol 7 Stearate		PNG^1
Purified Water, USP		q.s.

¹ Potency not given.

Project Number 901368 Subject classification list

Subject	Class		
1		!	Code
2	COMPLETED PATIENT		•
3	TREATMENT FAILURE		1
_	COMPLETED PATIENT		4b
4	COMPLETED PATIENT		1
5	COMPLETED PATIENT		1
6	COMPLETED PATTENT		1
7	COMPLETED PATIENT		1
8	COMPLETED PATIENT		1
9	ADVERSE REACTION		1
10	COMPLETED PATIENT		5
11	TREATMENT FAILURE		1
12	COMPLETED PATIENT		4a
13	COMPLETED PATIENT		1
14	COMPLETED PATIENT		1
15	TREATMENT FAILURE		1
16	COMPLETED PATIENT		4 a
17	COMPLETED PATIENT		1
18	COMPLETED PATIENT		1
19	COMPLETED PATIENT		ī
20	TREATMENT FAILURE		ī
21	NOT FLICIPLE		4a
22	NOT ELIGIBLE FOR STUDY		3c
23	TREATMENT FAILURE		4a
24	COMPLETED PATIENT		1
25	TREATMENT FAILURE		4a
26	COMPLETED PATIENT		1
27	NOT ELIGIBLE FOR STUDY		3c
29	LOST TO FOLLOW-UP OR MISSING DATA		2a
30			_
31	COMPLETED PATIENT		1
32	LOST TO FOLLOW-UP OR MISSING DATA		1
33	THE POLICE FAITENIE		2a
34	COMPLETED PATIENT		1
-	COMPLETED PATIENT		1
35	LOST TO FOLLOW-UP OF MISSING TOP		1
36			2b
37	TREATMENT FAILURE		4 b
38	COMPLETED PATIENT		4b
39	TREATMENT FAILURE		1
40	TREATMENT FAILURE		4b
41	COMPLETED PATIENT		4Ь
42	COMPLETED PATIENT		1
43	COMPLETED PATIENT		1
44	COMPLETED PATIENT		1
	INITEMI	3	<u>l</u>

1-Patient completed all 3 visits and has data from 3 KOH+3 culture results
2a- Patient came for Visit 1 only. 2b- Patient came for Visits 1+2 only
3c- Missing KOH/culture at any visit. 2d- Came too late for Visit 2 or 3
3c- Negative KOH/culture at Visit 1
4a- Positive KOH/culture at Visit 1
4b- Positive KOH/culture at Visit 3
5-Patient withdrew from study due to ADR

Project Number 901368 Subject classification list

Subject	Class	
45	COURT PROPERTY	Code
46	COMPLETED PATIENT	1
47	COMPLETED PATIENT	i
48	COMPLETED PATIENT	i
	COMPLETED PATIENT	1
49	NOT ELIGIBLE FOR STUDY	
50	COMPLETED PATIENT	3a
51	COMPLETED PATIENT	1
52	TREATMENT FAILURE	1
53	COMPLETED PATIFNT	4a
54	LOST TO FOLLOW-UP OR WARREN	1
55		2b
59	COMPLETED PATIENT	2a
60	COMPLETED PATIENT	1
61	COMPLETED PATIENT	1
62	TREATMENT FAILURE	1
63	COMPLETED PATIENT	4b
64	COMPLETED PATIENT	1
65	TREATMENT FAILURE	. 1
66	TREATMENT FAILURE	4b
67	LOST TO FOLLOW-UP OR WAR	4b
68	LOST TO FOLLOW-UP OR MISSING DATA	2a
69	LOST TO FOLLOW-UP OR MISSING DATA TREATMENT FAILURE	2b
70	LOST TO POLICE TO	4 a
71	LOST TO FOLLOW-UP OR MISSING DATA	2b
72	DELIGIBLE FOR STUDY	3c
73	TREATMENT FAILURE NOT ELIGIBLE FOR STUDY COMPLETED PATIENT	4b
74	COMPLETED DESCRIPTION	3c
75	COMPLETED PATIENT	1
76	COMPLETED PATIENT	ī
77	COMPLETED PATIENT	ī
78	LOST TO FOLLOW-UP OR MISSING DATA	2d
79		3c
80	TREATMENT FAILURE	4b
81	COMPLETED PATIENT	1
82	TREATMENT FAILURE	4b
83	COMPLETED PATIENT	1 .
84	COMPLETED PATIENT	1
85	TREATMENT FAILURE	-
86	COMPLETED PATIENT	4b
87	NOT ELIGIBLE FOR STUDY	1
88	COMPLETED PATTENT	3c
89	COMPLETED PATTENT	1
90	COMPLETED PATIENT	1
30	LOST TO FOLLOW-UP OR MISSING DATA	1
_	ON HIDDING DATA	2d

2a- Patient completed all 3 visits and has data from 3 KOH+3 culture results
2c- Missing KOH/culture at any visit. 2b- Patient came for Visits 1+2 only
2c- Protocol violation (inc/exc) 3b- Asymptomatic at Visit 1
2c- Negative KOH/culture at Visit 1
4a- Positive KOH/culture at Visit 2
5-Patient withdrew from study due to ADR

Project Number 901368 Subject classification list

Subject	Class	Code
91	COMPLETED PATIENT	1
92	COMPLETED PATIENT	1
93	COMPLETED PATIENT	1
94	COMPLETED PATIENT	i
95	TREATMENT FAILURE	4b
96	COMPLETED PATIENT	1
97	TREATMENT FAILURE	. 4a
98	COMPLETED PATIENT	1
99	COMPLETED PATIENT	ī
100	COMPLETED PATIENT	ī
102	COMPLETED PATIENT	ī
104	COMPLETED PATIENT	ī
105	TREATMENT FAILURE	4 b
107	NOT ELIGIBLE FOR STUDY	3с
109	NOT ELIGIBLE FOR STUDY	3 <i>c</i>
110 111	COMPLETED PATIENT	1
111	COMPLETED PATIENT	1
112	COMPLETED PATIENT	1
121	COMPLETED PATIENT COMPLETED PATIENT	1 .
122	COMPLETED PATIENT	1
123	COMPLETED PATIENT	1
124	COMPLETED PATIENT	1
125	NOT ELIGIBLE FOR STUDY	1
126	COMPLETED PATIENT	3c
127	COMPLETED PATIENT	1
128	COMPLETED PATIENT	1
129	COMPLETED PATIENT	1
130	COMPLETED PATIENT	i
131	NOT ELIGIBLE FOR STUDY	3c
132	TREATMENT FAILURE	4b
133	COMPLETED PATIENT	i
134	COMPLETED PATIENT	ī
135	TREATMENT FAILURE	4a
136	COMPLETED PATIENT	1
137 138	COMPLETED PATIENT	1
138	COMPLETED PATIENT	1
140	COMPLETED PATIENT	1
141	COMPLETED PATIENT	1
142	COMPLETED PATIENT	1
143	COMPLETED PATIENT	1
144	TREATMENT FAILURE TREATMENT FAILURE	4b
-	TALLURE TALLURE	4a

1-Patient completed all 3 visits and has data from 3 KOH+3 culture results
2a- Patient came for Visit 1 only. 2b- Patient came for Visits 1+2 only
2c- Missing KOH/culture at any visit. 2d- Came too late for Visit 2 or 3
3a- Protocol violation (inc/exc) 3b- Asymptomatic at Visit 1
4a- Positive KOH/culture at Visit 1
4a- Positive KOH/culture at Visit 3
5-Patient withdrew from study due to ADR

Project Number 901368 Subject classification list

Subject	Class	Code
145	COMPLETED PATIENT	1
146	TREATMENT FAILURE	4b
147	COMPLETED PATIENT	i
148	COMPLETED PATIENT	ī
149	COMPLETED PATIENT	ī
150	COMPLETED PATIENT	ī
151	COMPLETED PATIENT	ī
152	COMPLETED PATIENT	ī
153	LOST TO FOLLOW-UP OR MISSING DATA	2d
154	LOST TO FOLLOW-UP OR MISSING DATA	2 d
155	NOT ELIGIBLE FOR STUDY	3c
156	COMPLETED PATIENT	1
157	TREATMENT FAILURE	4b
158	COMPLETED PATIENT	1
159	COMPLETED PATIENT	ī
160	COMPLETED PATIENT	ī
161	TREATMENT FAILURE	4b
163	TREATMENT FAILURE	4b
164	COMPLETED PATIENT	1
165	COMPLETED PATIENT	ī
166	COMPLETED PATIENT	î
168	COMPLETED PATIENT	ī
169	NOT ELIGIBLE FOR STUDY	3c
170	NOT ELIGIBLE FOR STUDY	3c
171	COMPLETED PATIENT	1
172	TREATMENT FAILURE	4b
173	COMPLETED PATIENT	1
174	LOST TO FOLLOW-UP OR MISSING DATA	2a
175	NOT ELIGIBLE FOR STUDY	3c
176	TREATMENT FAILURE	4b

N = 159

1-Patient completed all 3 visits and has data from 3 KOH+3 culture results
2a- Patient came for Visit 1 only. 2b- Patient came for Visits 1+2 only
2a- Protocol violation (inc/exc) 3b- Asymptomatic at Visit 1
4a- Positive KOH/culture at Visit 1
4b- Positive KOH/culture at Visit 3
5-Patient withdrew from study due to ADR

Project Number 901368

Investigator Summary Table

· · · · · · · · · · · · · · · · · · ·	Investigator Name	Specialty	# Pt. # Pt. entered / evaluable
		Ob/Gyn	29 / 28
	1	Ob/Gyn	3 / 1
	-	G.P.	17 / 13
		Ob/Gyn	27 / 18
		Ob/Gyn	26 / 25
		G.P.	4 / 2
		Ob/Gyn	24 / 16
		Ob/Gyn	28 / 26
	<u> </u>	G. P.	1 / 1
Total	9		159 / 130

APPEARS THIS WAY ON ORIGINAL

Report Investigator Summary (Table 4/summary.dat) created on 17/05/95.

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1.6 "Pooling" of Data Across Study Centres

There were large discrepancies between the actual sample size contribution from each centre. In general, the contributions from each centre were not balanced. The sample size ranged from a low of 1/130 (0.9%) from to a high of 27/130 (20.8%) for

For the purpose of this analysis, study centres contributing less than 10 subjects were themselves pooled to form a comparison group labelled as "Others".

Investigator	Miconazole (Perrigo)	Monistat-7 (Ortho)	Total patients
	13 1 6 10 14 1 9 14 0	14 0 7 9 11 1 7 12	27 20.8% 1 0.8% 13 10.0% 19 14.6% 25 19.2% 2 1.5% 16 12.3% 26 20.0% 1 0.8%
	68 (52.3%)	62 (47.7%)	130 100.0%

The demographic and background information in general did differ significantly across the study centres for age (p=0.01), but not for weight (p=0.15) nor for height (p=0.59). Previous Treatment for VCI (p<0.0005) and Treatment Response for Previous VCI (p<0.0005) were also statistically significant.

These inter-investigator differences which were statistically significant were not considered to be of any clinical significance which could preclude the pooling of data across study centres. There were no statistically significant differences in other demographic or presentation characteristics.

There were no statistically significant differences for mycological (p=0.91) or clinical cure (p=0.67) or combined mycological/clinical cure (p=0.93) as determined by Chi-square analysis or Rank sums (Kruskal-Wallis) tests.

Prepared by:

Date

: 1.

128/14

Project Number 901368

Subject, Treatment and Classification Distribution

Investigator	Subject	Initials	Treatment	Code
cts for	12 34 56 7 8 10 112 13 14 15 16 17 18 19 20 59 60 61 62 63 64 65 66	L-GAG C-DIO V-LIM S-CIC J-VEI D-GAG L-BUR L-GEL C-GUE A-PER S-SIM J-LAR C-GAL C-DUB A-STA M-PAR D-LAU S-SAB N-LEF L-JOL I-SAR V-EMO S-GRA P-CRA	Perrigo Perrigo Ortho Ortho Ortho Ortho Perrigo Perrigo Perrigo Perrigo	1 4b 1 1 1 1 1 1 1 5 1 4a 1 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4
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Comparison of Miconazole 100 mg Suppositories (Perrigo) and Monistat-7 r (Ortho) in the Treatment of Vulvo-Vaginal Candidiasis Project Number 901368 All eligible enrolled patients, by treatment group

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2ND REVISIT

----Treatment=Perrigo----

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Symptoms	Moderate	Moderate	Severe	Severe	Severe	Severa	Moderate	Moderate	Servers	PI IX	Moderate	Moderate	Moderate	Moderate	No. of the last	TOTAL CO.	COOCEACO	27.70	ייי	Apperate	271	Toderate	Moderate	DEVECE	SWELDE OF	DEVER	Davere	Severe	Severe	Moderate	Moderate	Moderate		
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HO H	MADUSON POB	Pos	POS	Pos	POB	POB	20	Pog	8	11. Pos	600chpog	Poe	Po	Pos	Pog	SIDAVE BOR	Pog	Por	Pos	Pos	! .		Pos	Poe	Poe	12	Š	200	2		L XX	\$		
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* Number of days post-treatment to review

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Comparison of Miconazole 100 mg Suppositories (Perrigo) and Momistat-7 (Ortho) in the Treatment of Vulvo-Vaginal Candidiasis All eligible enrolled patients, by treatment Project Number 901368 droup

1ST REVISIT

---Treatment=Ortho------2ND REVISIT

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Number of days post-treatment to review

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Subject

Comparison of Miconazole 100 mg Suppositories (Perrigo) and Monistat-7 r (Ortho) in the Treatment of Vulvo-Vaginal Candidiasis Project Number 901368 All ineligible patients, by treatment group

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Number of days post-treatment to review

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None None

Yes Yes

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Comparison of Miconazole 100 mg Suppositories (Perrigo) and Monistat-7 r (Ortho) in the Treatment of Vulvo-Vaginal Candidiasis Project Number 901368

All ineligible patients, by treatment group

1ST REVISIT 2NU REVISIT

---Treatment=Ortho---

APPEARS THIS WAY ON ORIGINAL

* Mumber of days post-treatment to review

Came too late for Visit 2 or 3

77, 90, 153, 154

A total of 130 patients were considered to be eligible for analysis of mycological and clinical cure rate. This includes patients with the following minor protocol deviations:

Missing diary:

22, 34, 40, 98, 104

Missing Pregnancy Tests:

76, 93, 112, 121, 122, 123, 124, 126, 127, 129, 130, 132, 133, 139, 140, 142, 144, 148

Eight days between sample date and first day of treatment

42, 43, 95, 164, 168

Patient Numbers 14 and 141 were under age to participate in this study, but their parents co-signed the consent form.

All analyzed patients were within 2 days early to 7 days late for Visit 2.

At Visit 3 all patients were within a week of their scheduled visit, with the following exceptions:

> Patient No. 152

09 days late:

16 days late: 151

The Intent-to-Treat analysis included 159 patients.

Demographic Data:

68 patients were included in the Perrigo group and 62 patients in the Ortho group. There was no statistically significant difference between the two groups (p > 0.05) in weight, height and age.

Mycological Cure Rate:

All patients included in the mycological cure rate analysis had a positive KOH and culture at Visit 1.

Mycological cure, defined as KOH and culture results negative at both Visit 2 and Visit 3, was reported for 73.53% (50/68) of the Perrigo group and 77.42% (48/62) of the Ortho group (Table 2a). Comparison of the two active treatments showed no Statistically significant difference (p = 0.756; 90% C.I.: -17.83% to 10.05%).

Individual Visit 2 and Visit 3 mycological cure rate data are shown in Table 2b.

-11

study Number 901368 page 3

Clinical Repor June 9, 1993

At each patient visit the physician was asked to record the severity of the clinical signs and symptoms according to a 0-3 severity of symptoms rating scale.

Any adverse event experienced by the patient, or noticed by the physician, was reported on an adverse event form.

CRITERIA FOR CLINICAL AND MYCOLOGICAL CURE:

"Mycological cure" was considered to be negative KOH and culture at both Visits 2 and 3. "Clinical cure" was defined as an improvement of symptoms at Visit 2 (compared to Visit 1) and absence of symptoms at Visit 3.

Pertaining to the "Clinical Cure" definition, after meeting with the FDA on February 8, 1993, the definition was changed from the one indicated in the protocol to the one in the above paragraph. All statistical analyses were done according to the approved FDA definition.

"Overall cure" was defined as a combination of both mycological cure and clinical cure, as described above. Any patient who had a positive culture or KOH at either Visit 2 or Visit 3, or an exacerbation of symptoms, was considered not cured (i.e. "fail").

STATISTICAL ANALYSIS:

Statistical calculations and data tabulation were performed using SAS for microcomputers, Version 6.04, (SAS, Statistical Analysis System, Cary, N.C., 1989.). Significance levels for Student-t test, Chi-square or adjusted Chi-square test, Wilcoxon Ranks Sums test and the Kruskal-Wallis test were based on the 5% alpha-level.

Confidence interval and power calculations were based on the method defined by J.L. Fleiss (Statistical Methods for Rates and Proportions. 2nd Edition, J.L. Fleiss, John Wiley and Sons N.Y. pp 29-30).

ERSULTS:

Priect Classification:

APPEARS THIS WAY

Cotal of 159 patients were entered into the study. Of these, 29 were not collision for the following reasons:

for visit 1 and 2 only

August 29, 1995

COMPARISON OF MICONAZOLE 100 MG SUPPOSITORIES (PERRIGO) AND MONISTAT-7° (ORTHO) IN THE TREATMENT OF VULVO-VAGINAL CANDIDIASIS

PROTOCOL 901368

Visit Specific Mycological Cure Rates

	No. of Patients/To Patie	otal No. of Evaluable
Treatment Group	Mycological Cure Visit 2	Mycological Cure Vielt 3
Perrigo	62/68 (91.18%)	50/63 - (79 .37%)
Ortho	58/62 (93.55%)	48/80 (80.00%)
p-value	0.612	0.930

The Visit 3 mycological data is independent of Visit 2 mycological data.

August 29, 1895

COMPARISON OF MICONAZOLE 100 MG SUPPOSITORIES (PERRIGO) AND MONISTAT-7° (ORTHO) IN THE TREATMENT OF VULVO-VAGINAL CANDIDIASIS

PROTOCOL 901368

Clinical Cure Rates

No. of Patients/Total No. of Evaluable Patients (%)

Treatment Group	Improvement of Symptoms Visit 2	No symptoms Visit 3
Perrigo	68/68 (100%)	55/64 (85.94%)
Ortho	81/62	56/60
	(98.39%)	(93.33%)
p-value	N/A	0.179

ON ORIGINAL

Project No. 901368

Table 4

Overall Combined Mycological and Clinical Cure Rate*

Number	of patients classified (% of patients)	as Overall	Cure	
Perrigo	Ortho	p-value	90%	C.I. (9
48/68	47/62	0.637	-19.51	to 9.08
(70.59%)	(75.81%)			

^{*} Overall Cure is defined as mycological cure and clinical cure

INVESTIGATOR:

Results:

Table 1

PATIENTS EVALUABLE AT 1ST REVISIT

BY APPLICANT n = 159

I	Perrigo	Ortho	Total
# Pt.	Entered/	# Pt. E	valuable
(OB-GYN)			28/18
(OB-GYN)			28/26
(OB-GYN)			28/28
(OB-GYN)			26/25
(OB-GYN)			24/16
(G.P.)			17/13
. (G.P.)			4/2
(OB-GYN)			3/1
(G.P.)			1/1
<u>Total</u>			159/130

Project No. 901368 Table 1

Demographic Data

	Test: Perrigo (n = 68)	Reference: Ortho (n = 62)
Mean weight (kg)	60.8	59.6
(range)	(44.5 - 109.1)	(45.4 - 86.4)
Mean height (cm)	162.8	160.5
(range)	(152.0 - 182.8)	(139.7 - 180.0)
Mean age (years)	31.2	32.0
(range)	(16.2 - 62.9)	(14.5 - 65.1)

Project No. 901368

Table 2a

Mycological Cure Rate

N	Number of patients with m (% of pa	nycological atients)	cure*	2
Perrigo	Ortho	_ p	C.	I.
50/68	48/62	0.756	-17.83	to 10.059
(73.53%)	(77.42%)			

p value = between treatment groups
C.I. = 90% confidence intervals for the difference between cure rates

Table 2b

KOH and Culture Cure Rates at Visit 2 and Visit 3

	Number of	patients with result	s negative (% of)	patients)
Treatment Gro	Wicit		Visit 3	Culture
Perrigo	67/68 (98.53%)	62/68 (91.18%)	55/63 (87.30%)	51/63 (80.95%)
Ortho	58/62 (93.55%)	59/62 (95.16%)	56/60 (93.33%)	48/60 (80.00%)
P-value:	0.308	0.584	0.411	1.000
.1.(8): -	2.23 to 12.19	-12.74 to 4.78	-16.36 to 4.29	-12.44 to 14.3

P value = between treatment groups
C.I. = 90% confidence intervals for the difference between cure rates

^{*} Mycological cure is defined as a negative KOH and Culture at both Visit 2 and Visit 3.

CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

74-760

ADMINISTRATIVE DOCUMENTS

MU. LUL

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE

FOOD AND DRUG ADMINISTRATION

APPLICATION TO MARKET A NEW DRUG FOR HUMAN USE OR AN ANTIBIOTIC DRUG FOR HUMAN USE

1 Enderel Perulations 3141

Form approved: OMB No. 0910-0001. Expiration Date: December 31, 1995. See OMB Statement on Page 3

FOR FDA	USE ONLY
DATE RECEIVED	DATE FILED
DIVISION ASSIGNED	NDAJANDA NO. ASS,

(TITLE 21, Code of Federal)						
NOTE: No application may be filed u	inless a completed application form hi	s been received (21 CFR i	Part 314).			
AME OF APPLICANT		J	2210M			
Perrigo Company		April 14, 1997	Include Area Code)			
DORESS (Number, Street, City, State, and Zip Code)		(616) 673-8451	NTIBIOTIC APPLICATION -			
17 Water Street		NUMBER (If previously Issued)				
ijegan, Mi 49010		ANDA 74-760				
	DRUG PRODUCT					
LOOM OAND	I PROPRIETAR	Y NAME (If any)				
STABLISHED NAME (e.g., USP/USAN)						
liconazole Nitrate Cream						
	CHEMICAL NAME					
ODE NAME (If any)	CHEMICAL NAME					
	Miconazole Nitrate	1				
	ROUTE OF ADMINISTRAT	ON	STRENGTH(S)			
JOSAGE FORM			2%			
Cream	Vaginal		100 mg per dose			
ROPOSED INDICATIONS FOR USE						
JST NUMBERS OF ALL INVESTIGATIONAL NEW DR FR Part314), AND DRUG MASTER FILES (21CFR 3 L Perrigo Company ANDA #74-760	14,420) REFERRED TO IN THIS AP	PEIGATION.				
	INFORMATION ON APPLICATION	N	,,			
	TYPE OF ARRIVATION (Chack of	ne)				
THIS SUBMISSION IS A PULL APPLICATION (21	CFR 314.50) THIS SUBMISS	ON IS AN ABBREVIATED AP	PLICATION (ANDA) (21 CFR 314.5			
IF AN ANDA, IDENTIFY THE AP	PROVED DRUG PRODUCT THAT I	S THE BASIS FOR THE S	UBMISSION			
NAME OF DRUG	HOLDER OF	APPROVED APPLICATION	N			
	R. W. Johns	on				
Monistat ®7	TYPE SUBMISSION (Check on					
			JPPLEMENTAL APPLICATION			
PRESUBMISSION X	AN AMENDMENT TO A PENDING	AFFLICATION	 			
ORIGINAL APPLICATION	RESUBMISSION	21 550 314	.120			
ORIGINAL APPLICATION SPECIFIC REGULATION(S) TO SUPPORT CHANGE	OF APPLICATION (e.g., Part 314.	70(b)(2)(iv))				
SPECIFIC REGULATION(S) TO SUFFORT CHANGE	OPOSED MARKETING STATUS (C	check one)				
APPLICATION FOR A PRESCRIPTION DR	(OPOSED MARKETING STATES OF		HE-COUNTER PRODUCT (OT			
			Page 1			

	CONTENTS OF APPLICATION
This a	pplication contains the following Items: (Check all that apply)
	1. Index
	2. Summary (21 CFR 314.50(c))
×	3. Chemistry, manufacturing, and control section (21 CFR 314.50 (d) (1))
	4. a. Samples (21 CFR 314.50 (e) (1)) (Submit only upon FDA's request)
	b. Methods Validation Package (21 CFR 314.50 (e) (2) (i))
	c. Labeling (21 CFR 314.50 (e) (2) (ii))
	i. draft labeling <i>(4 copies)</i>
	II. final printed labeling (12 copies)
	5. Nonclinical pharmacology and toxicology section (21 CFR 314.50 (d) (2))
	6. Human pharmacokinetics and bioavailability section (21 CFR 314.50 (d) (3))
	7. Microbiology section (21 CFR 314.50 (d) (4))
	8. Clinical data section (21 CFR 314.50 (d) (5))
	9. Safety update report (21 CFR 314.50 (d) (5) (vi) (b))
	10. Statistical section (21 CFR 314.50 (d) (6))
	11. Case report tabulations (21 CFR 314.50 (f) (1))
	12. Case reports forms (21 CFR 314.50 (f) (1))
	13. Patent information on any patent which claims the drug (21 U.S.C. 355 (b) or (c))
	14. A patent certification with respect to any patent which claims the drug (21 U.S.C. 355 (b) (2) or (j) (2) (A))
	15. OTHER (Specify)
contras for requirements for the contract of t	be to update this application with new safety information about the drug that may reasonably affect the statement of caindications, warnings, precautions, or adverse reactions in the draft labeling. I agree to submit these safety update reports allows: (1) 4 months after the initial submission. (2) following receipt of an approvable letter and (3) at other times as ested by FDA. If this application is approved, I agree to comply with all laws and regulations that apply to approved cations, including the following: 1. Good manufacturing practice regulations in 21 CFR 210 and 211. 2. Labeling regulations 21 CFR 201. 3. In the case of a prescription drug product, prescription drug advertising regulations in 21 CFR 202. 4. Regulations on making changes in application in 21 CFR 314.70, 314.71, and 314.72. 5. Regulations on reports in 21 CFR 314.80 and 314.81. 6. Local, state, and Federal environmental impact laws. 5 application applies to a drug product that FDA has proposed for scheduling under the controlled substances Act I agree not arket the product until the Drug Enforcement Administration makes a final scheduling decision. E OF RESPONSIBLE OFFICIAL OR AGENT SIGNATURE OF RESPONSIBLE OFFICIAL OR AGENT DATE Y/Y/97
117	Id A. Jespersen, Director, Technical Services RESS (Street, City, State, Zip Code) Water Street (616) 673-8451
	gan, MI 49010 ARNING: A willfully false statement is a criminal offense. U.S.C. Title 18, Sec. 1001.)

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commercial

information

APPROVAL PACKAGE SUMMARY FOR 74-760

ANDA: 74-760 FIRM: L. Perrigo Company APPEARS THIS WAY DRUG: Miconazole Nitrate ON ORIGINAL DOSAGE: Cream STRENGTH: 2% CGMP STATEMENT/EIR UPDATE STATUS: EER is acceptable 4/7/97 **BIO STUDY/BIOEQUIVALENCE STATUS:** The comparative clinical study has been found acceptable by the Division of Anti-Infective Drug products, and by the Division of Bioequivalence 3/6/97. METHODS VALIDATION: The drug product is compendial STABILITY: The firm has submitted satisfactory three months accelerated stability data at 40°C/75%RH and 12 months room temperature stability data at 25-30°C. LABELING REVIEW STATUS: Labeling is satisfactory by L. Golson 10/16/96 STERILIZATION VALIDATION: N/A **BATCH SIZES:** The firm has submitted a copy of the executed batch record batch # 4BH172 The firm has provided copies of the master formula and manufacturing procedures for the intended production batches for _____ and ____ The firm will be using the same drug substance manufacturer DMF — The DMF is satisfactory, same manufacturing procedures and same equipments. COMMENTS: The Application is APPROVABLE. 21/6/97 DATE: 4/16/97 REVIEWER: Nashed E. Nashed, P.D.

SUPERVISOR: Paul Schwartz, Ph.D.

CDER Establis ment I aluation Report

for April 1991 10

Application: **ANDA** 760/000

p: 02-OCT-1995 egulatory Duc:

Applicant:

L PERR GO

117 WATER ST

ALLEGAN, MI 49010

Priority:

Ong Code: 600

District Goal: 12-DEC-1996

Page

Action Goal: Brand Name

Established Name: MICONAZOLE NITRATE

Generic Name:

Dosage Form:

CRM (CREAM)

Strength:

VAGINAL

FD Contacts:

Overall Recommendation:

ACCEPTABLE on 07-APR-1997 by M. HGAS(HFD-324)301-827-0062

Estalishment:

Res posibilities:

Res possibilities:

lishment: 1811666

PERRIGO CO 117 WATER ST ALLEGAN, MI 49010

RNISHED DOSAGE MANUFACTURER

NISHED DOSAGE RELEASE TESTER

Esta

DMF N

Profile: CSN

OAI Status: NON

Last Milestone:

OC RECOMMENDATI. 2-OCT-1996

Decision:

ACCEPTABLE

Reason:

BASED ON PROFILE

DMF No:

Profile: NEC

OAI Status: NON

Last Milestone: OC RECOMMENDATI 22-OCT-1996

Decision:

ACCEPTABLE

Reason:

BASED ON PROFILE

Profile: OIN

OAI Status: NON

Last Milestone:

OC RECOMMENDATI 7-APR-1997

Decision:

ACCEPTABLE

Reason:

DISTRICT RECOMMENDATION

RECORD OF TELEPHONE CONVERSATION

Reference is made to Pernigo's August 9, 1996 amendment. On page 7, the sponsor says that total impurities will not be more than including the ordinary impurities.

However, the specification listed under the certificate of analysis on page 9 does not clearly state the ____ limit for total impurities including ordinary impurities.

Ms. Green was asked to revise page 9 accordingly.

She said Perrigo would comply.

cc:
ANDA
Division File
T-con Binder

DATE 4/14/97

ANDA NUMBER74-760

IND NUMBER

TELECON

INITIATED BY FDA

PRODUCT NAME Miconazole Nitrate Vaginal Cream, 2%

FIRM NAME Perrigo

NAME AND TETLE OF PERSON WITH WHOM CONVERSATION WAS HELD

Virginia Green

TELEPHONE NUMBER 616-673-7604

signature Joseph Buccine

DEPARTMENT OF HEALTH AND HUMAN SERVICES REQUEST FOR CONSULTATION PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION TO (Division Office) FROM: -520 Dr. Julius Piver HFD-650 -- Division of Bioequivalence IND NO. NDA NO. TYPE OF DOCUMENT DATE OF DOCUMENT 4/9/96 N 74-760 Study Amendment 3/20/96 NAME OF DRUG PRIORITY CONSIDERATION CLASSIFICATION OF DRUG DESIRED COMPLETION DATE Miconazole Nitrate 60 Days NAME OF FIRM L. Perrigo REASON FOR REQUEST I. GENERAL NEW PROTOCOL PRE-NDA MEETING RESPONSE TO DEFICIENCY LETTER PROGRESS REPORT ☐ END OF PHASE II MEETING FINAL PRINTED LABELING □ NEW CORRESPONDENCE RESUBMISSION ☐ LABELING REVISION DRUG ADVERTISING SAFETY/EFFICACY ORIGINAL NEW CORRESPONDENCE ADVERSE REACTION REPORT D PAPER NOA ☐ FORMULATIVE REVIEW MANUFACTURING CHANGE/ADDITION CONTROL SUPPLEMENT OTHER (Specify below) ☐ MEETING PLANNED BY_ II. BIOMETRICS STATISTICAL EVALUATION BRANCH STATISTICAL APPLICATION BRANCH TYPE A OR BINDA REVIEW ☐ CHEMISTRY ☐ END OF PHASE !! MEETING ☐ PHARMACOLOGY CONTROLLED STUDIES ☐ BIOPHARMACEUTICS PROTOCOL REVIEW OTHER OTHER III. BIOPHARMACEUTICS DISSOLUTION D DEFICIENCY LETTER RESPONSE BIOAVAILABILITY STUDIES ☐ PROTOCOL— BIOPHARMACEUTICS PHASE IV STUDIES ☐ IN-VIVO WAIVER REQUEST IV. DRUG EXPERIENCE ☐ PHASE IV SURVEILLANCE/EPIDEMIOLOGY PROTOCOL REVIEW OF MARKETING EXPERIENCE, DRUG USE AND SAFETY DRUG USE e.g. POPULATION EXPOSURE, ASSOCIATED DIAGNOSES SUMMARY OF ADVERSE EXPERIENCE CASE REPORTS OF SPECIFIC REACTIONS(List below) POISON RISK ANALYSIS COMPARATIVE RISK ASSESSEMENT ON GENERIC DRUG GROUP V. SCIENTIFIC INVESTIGATIONS CLINICAL ☐ PRECLINICAL COMMENTS/SPECIAL INSTRUCTIONS/Atmch additional sheets if necessary) Enclosed are the reformatted data tables requested in your FAX to the sponsor dated 2/16/96. Please enclose with you review, a copy of the review on diskette, or the file name and Lan location of the file so our reviewer can access the text. Please return to Generic Drugs Document Room --Metro Park North II Room E150

Deliver ot Larry Galvin Room El18 -- Any Questions Call at 4-2290

SIGNATURE OF REQUESTER		METHOD OF	DELIVERY (C)	heck one)	
			MAIL	☐ HAND	
SIGNATURE OF RECEIVER	!/	SIGNATURE	OF DELIVERE	R	

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pages of trade secret and/or

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commercial

information

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DEPARTMENT OF HEALTH AND HUMAN S PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION	11	REQUEST FOR CON	SULTATION
TO (Division Office) In (1 772 0 1)		FROM:	
F HFD-105 (Mary Jane Wa	earing P	HFD-650 Division o	f Bioequivalence
IND NO.	NDA NO.	TYPE OF DOCUMENT	DATE OF DOCUMENT
11/15/96	N 74-760	·	10/29/96
NAME OF DRUG		CLASSIFICATION OF DRUG	DESTRED COMPLETION DATE
Miconazole Nitrate			ASAP
NAME OF FIRM		<u> </u>	
Perrigo			
	REASON FOR	REQUEST	·
	I, GENEF	RAL	
□ NEW PROTOCOL	PRE-NDA MEETING	KI RESPONS	E TO DEFICIENCY LETTER
PROGRESS REPORT	D END OF PHASE II MEET		INTED LABELING
□ NEW CORRESPONDENCE	☐ RESUBMISSION	□ LABELIN	
D DRUG ADVERTISING	SAFETY/EFFICACY	_	L NEW CORRESPONDENCE
☐ ADVERSE REACTION REPORT	PAPER NDA	☐ FORMULA	ATIVE REVIEW
☐ MANUFACTURING CHANGE/ADDITION	CONTROL SUPPLEMEN	T □ OTHER(S	pecify below)
☐ MEETING PLANNED BY			
	II. BIOMET		· · · · · · · · · · · · · · · · · · ·
STATISTICAL EVALUATION	BRANCH	STATISTICAL APP	LICATION BRANCH
TYPE A OR BINDA REVIEW		☐ CHEMISTRY	
☐ END OF PHASE II MEETING		☐ PHARMACOLOGY	
CONTROLLED STUDIES		BIOPHARMACEUTICS	
PROTOCOL REVIEW	·	OTHER	
OTHER			
	III. BIOPHARM	ACEUTICS	
		_	
SSOLUTION		DEFICIENCY LETTER RESPONDED PROTOCOL—BIOPHARMACE	
OAVAILABILITY STUDIES		IN-VIVO WAIVER REQUEST	JTICS
_ that is stobled		I IN-VIVO WAIVER REGUEST	
	IV. DRUG EXP	ERIENCE	` ,.
☐ PHASE IV SURVEILLANCE/EPIDEMIOLOGY			
Drug use e.g. Population Exposure, As		SUMMARY OF ADVERSE EXP	ERIENCE, DRUG USE AND SAFETY
CASE REPORTS OF SPECIFIC REACTIONS/LI	ist belowi	D POISON RISK ANALYSIS	ENIENCE
COMPARATIVE HISK ASSESSEMENT ON GE	NERIC DRUG GROUP	_ 10.0011 Mak ANAE / 513	
	V. SCIENTIFIC INV	ESTIGATIONS	
☐ CLINICA	L	□ PRECLINICAL	
COMMENTS/SPECIAL INSTRUCTIONS(Atmch add	ditional sheets if necessary)		
For review by Dr. Ali Vasatos H	HFD-520.		
This consult consists of a maninformation in a letter dated (ng a 43 page response	to our request for
Please include, with you review file name and LAN location of t	w, a copy of the r the file, so our r	eview text on computer eviewer can access the	diskette, or, the text. Thanks!!
11/25/96 To	Leiser for	assignment, a	5 Page
ase return to Generic Drugs Deliver to Larry Galvin -			
Deliver to Larry Galvin -	- Room Ella. Any	questions Please call	Larry at 4-2290
	$\overline{\qquad}$		
SIGNATURE OF REQUESTED		METHOD OF DELIVERY (Check of	_
		MAIL	☐ HAND
SIGNATI	\/	SIGNATURE OF DELIVERER	
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DEPARTMENT OF H	EALTH AND HUMAN	SERVICES			
	HEALTH SERVICE		[REQUEST FOR CONS	UETATION V EIN
FOOD AND D	RUG ADMINISTRATI	ON	CRPS	5220)	
TO (Division!Office) H	FD 520			FROM:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ODE 5 - HFD 105	Mary Jun	v Halli	ha	HFD-650 Division of Bic	eguivalance
DATE	IND NO.	NDA NO.	'\ \	TYPE OF DOCUMENT	DATE OF DOCUMENT
10/30/96	/	N 74-760	•	1	
NAME OF DRUG			SIDERATIO	CLASSIFICATION OF DRUG	DESIRED COMPLETION DATE
Miconazole Nitra	te				ASAP
NAME OF FIRM					ASAF
Perrigo					
		R	EASON FOR	REQUEST	
			I. GENE	RAL	
NEW PROTOCOL		PRE-NDA N	45 ETING		_
PROGRESS REPORT		END OF PH			TO DEFICIENCY LETTER
NEW CORRESPONDEN	CE	RESUBMIS	HASE II MEE		TED LABELING
DRUG ADVERTISING		SAFETY/EI		LABELING F	
ADVERSE REACTION	REPORT	PAPER NO		☐ FORMULATI	EW CORRESPONDENCE
MANUFACTURING CH.		CONTROL		T DOTHER (Spec	MO below
MEETING PLANNED B				— — — — — — — — — — — — — — — — — — —	ty below)
					
			II. BIOMET	RICS	
STATIS	TICAL EVALUATION I	BRANCH		STATISTICAL APPLIC	ATION BRANCH
TYPE A OR B NDA REV	/IEW			□ CHEMISTRY	
END OF PHASE II MEE				☐ PHARMACOLOGY	
CONTROLLED STUDIE				☐ BIOPHARMACEUTICS	
PROTOCOL REVIEW				OTHER	
OTHER					
	 	411.	BIOPHARM	ACEUTICS	
DISSOLUTION				DEFICIENCY LETTER RESPONSE	<u> </u>
BIOAVAILABILITY STU	DIES			PROTOCOL-BIOPHARMACEUTI	CS
THASE IV STUDIES				☐ IN-VIVO WAIVER REQUEST	
			DD110 5115		
			DRUG EXP		
"HASE IV SURVEILLAN				REVIEW OF MARKETING EXPER	IENCE, DRUG USE AND SAFFTY
PRUG USE e.g. POPULA	TION EXPOSURE, AS	SOCIATED DIA	GNOSES	SUMMARY OF ADVERSE EXPERI	ENCE
L CASE REPORTS OF SPE I COMPARATIVE RISK A	CIFIC REACTIONS(LIS	it below)		POISON RISK ANALYSIS	
The Misk A	SESSEMENT ON GEN			ESTIGATIONS	
	CLINICAL				
OMMENTS/SPECIAL INST			nerestary)	PRECLINICAL	
	and the second s		,		
for review by Dr.	All Vasatos H	FD .			
his consult cons	ists of two su	bmissions	of 6 and	d 5 pages, respectively,	togothom in a
manila folder.				d J pages, respectively,	together in a
Then you review i	a acmulata —1				
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hank you for you	assistance.				
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Deliver to L	arry Galvin Ro	om E118	Drugs Do	ocument RoomMetro Park	North 2 Rm E150.
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11/19/96 To Bradleissa for assignment 9 Bona

FORM FDA 3291 (7/83)

ELECTRONIC MAIL MESSAGE

Date:

13-Nov-1996 01:18pm EST

From:

Mary Jane Walling WALLINGMA

Dept:

HFD-105

: HFD-

CRP2 S220

Tel No:

301-827-2268 FAX 301-827-2317

TO: Laurence Galvin

(GALVIN)

Subject: ANDA 74-760

this application does not belong to ODE V. It belongs in 520 ODE IV because it is a vaginal indication

I have given it to Toni Nearing in HFD 104

APPROVAL SUMMARY

REVIEW OF PROFESSIONAL LABELING DIVISION OF LABELING AND PROGRAM SUPPORT LABELING REVIEW BRANCH

ANDA Number:

74-760

Date of Submission:

October 16, 1996 (Amendment)

Applicant's Name:

L. Perrigo Company

Established Name: Miconazole Nitrate Vaginal Cream, 2%

APPROVAL SUMMARY (List the package size, strength(s), and date of

submission for approval):

Do you have 12 Final Printed Labels and Labeling?

Container Labels:

(45 g tube)

Satisfactory as of August 9, 1996 submission

Carton Labeling:

(1 reusable applicator)

(7 disposable applicators)

Satisfactory as of August 9, 1996 submission

Patient Package Insert Labeling:

Satisfactory as of October 16, 1996 submission

BASIS OF APPROVAL:

Was this approval based upon a petition? No

What is the RLD on the 356(h) form: Monistat® 7 Vaginal Cream

NDA Number: #17-450

NDA Drug Name: Miconazole Nitrate Vaginal Cream, 2%

Advanced Care Products NDA Firm:

Date of Approval of NDA Insert and supplement #040: 2/9/95

Has this been verified by the MIS system for the NDA?

Yes

Was this approval based upon an OGD labeling guidance? No

Basis of Approval for the Container Labels: 17-450

Basis of Approval for the Carton Labeling: 17-450

REVIEW OF PROFESSIONAL LABELING CHECK LIST

Applicant's Established Name	Yes	No	N.A.
Different name than on acceptance to file letter?	163		14.A.
Is this product a USP item? If so, USP supplement in which verification was assured.		x	
USP 23, Supplement 6 and product has not been proposed for the PF.			İ
Is this name different than that used in the Orange Book?		x	
Error Prevention Analysis			
PROPRIETARY NAME		<u></u>	
Has the firm proposed a proprietary name? If yes, complete this subsection.		х	
PACKAGING			
The applicant is proposing two packaging configurations, one 45 g tube with one reusable applicator or 7 disposable applicators			
Is this a new packaging configuration, never been approved by an ANDA or NDA? If yes, describe in FTR.		х	
Is this package size mismatched with the recommended dosage? If yes, the Poison Prevention Act may require a CRC.		х	
Does the package proposed have any safety and/or regulatory concerns?		х	-
Conflict between the DOSAGE AND ADMINISTRATION and INDICATIONS sections and the packaging configuration?		x	
Is the strength and/or concentration of the product unsupported by the insert labeling?		x	
Individual cartons required? Issues for FTR: Innovator individually cartoned? Light sensitive product which might require cartoning? Must the package insert accompany the product? Package insert (EDUCATIONAL PROCHUME) And I			
Package insert (EDUCATIONAL BROCHURE) should accompany the product. The carton is needed to store the reusable tube of cream and it applicator(s).			ļ
Are there any other safety concerns?		x	
LABELING		_	
Is the name of the drug unclear in print or lacking in prominence? (Name should be the most prominent information on the label).		x	
Has applicant failed to clearly differentiate multiple product strengths?		x	
Contrasting colors are being used for the one applicator and 7 applicators cartons.			

Is the name of the drug unclear in print or lacking in prominence? (Name should be the most prominent information on the label).	x	
Has applicant failed to clearly differentiate multiple product strengths?		
Contrasting colors are being used for the one applicator and 7 applicators cartons.	X	
Is the corporate logo larger than 1/3 container label? (No regulation - see ASHP guidelines)	х	
Is the Manufactured by/Distributor statement incorrect or falsely inconsistent between labels and labeling? Is "Jointly Manufactured by", statement needed?	x	
Inactive Ingredients: (FTR: List page # in application where inactives are listed)		
Page 98, Volume 1.1		
Does the product contain alcohol? If so, has the accuracy of the statement been confirmed?	х	1
Do any of the inactives differ in concentration for this route of administration?	x	\dagger
Any adverse effects anticipated from inactives (i.e., benzyl alcohol in neonates)?	x	\dagger
Is there a discrepancy in inactives between DESCRIPTION and the composition statement?	x	+
Has the term "other ingredients" been used to protect a trade secret? If so, is claim supported?	x	\dagger
USP Issues: (FTR: List USP/NDA/ANDA dispensing/storage recommendations) NDA - Store at room temperature, 15°-30°C (59°-86°F). Avoid heat over 30°C or 86°F. ANDA - Same as innovator		
Do container recommendations fail to meet or exceed USP/NDA recommendations? If		\perp
so, are the recommendations supported and is the difference acceptable?	X	
Is the product light sensitive? If so, is NDA and/or ANDA in a light resistant container?	х	
Bioequivalence Issues: (Compare bioeqivalency values: insert to study. List Cmax, Tmax, T 1/2 and date study acceptable)		
Results pending.		
Patent/Exclusivity Issues: FTR: Check the Orange Book edition or cumulative supplement for verification of the latest Patent or Exclusivity. List expiration late for all patents, exclusivities, etc. or if none, please state.		
None pending.		

February 6, 1996 to also include the option of marketing with 7 disposable applicators.

- Perrigo has included the statement "Compare to Monistat® 7's active ingredient" on the carton which is acceptable language when a generic firm wants to compare its product with the RLD on its labeling.
- All other FTR comments are contained within the Labeling 4. Reviewer's Checklist.

Date of Review:

primary Reviewer:

Date of Submission:

12/30/96

74-760 ANDA: cc:

DUP/DIVISION FILE

HFD-613/LGolson/CHoppes/JGrace (no cc)

njg/12/20/96/x:\new\firmsnz\perrigo\ltrs&rev\74760ap.l

Review

DATE: SEP 23 1996

TO: Director, Detroit District, HFR-MW200

FROM: Chief

Investigations & Compliance Evaluation Branch, HFD-324

SUBJ: Top 200 Inspection Request

ANDA 74-760, Miconazole Nitrate Vaginal Cream

2%

Applicant:
L. Perrigo Co.
117 Water Street
Allegan, MI 49010

PROFILE: OIN

REVIEWER: W. Russell TELEPHONE: 301-594-1841

Establishment:

L. Perrigo Co. 117 Water Street Allegan, MI 49010

CFN#: 1811666

In connection with FDA's review of ANDA 74-760, please conduct an inspection of the above referenced establishment. The application provides for this establishment to manufacture and test the above listed product. This is a Top 200 Drug Product, requiring a product specific inspection regardless of the last GMP EI covering the profile class OIN. For guidance, refer to CP 7346.832, Pre-Approval Inspections.

This application cannot be acted upon until the inspection is completed and your findings are reported to this office. Please call well in advance if you are unable to meet the time frame, whether due to priorities or the lack of readiness on the part of the firm.

Please send withhold and approval answers in the prescribed format via facsimile (FAX) 301-827-0145, or EMS, as soon as possible after the completion of the inspection, before the report write up starts. If classified OAI, recommend withhold and provide complete establishment inspection report with exhibits documenting deficiencies to HFD-324 within 30 days. If NAI recommend approval via EMS and forward endorsement (FD-481(E)-CG) by mail.

In communicating with this office (FTS 301-827-0062), reference should be made to ANDA 74-760. Please direct your written response to the Investigations & Compliance Evaluation Branch, HFD-324.

Mark A. Lynch

Priority: ANDA pending

Target Completion: OCT 23 1996

cc:

HFD-324 ICEB R/F

HFD-324 EER File

HFD-629 RUSSELL/NASHED

9/17/96:VSP

a: PERRIGO. WATER. 200

ELECTRONIC MAIL MESSAGE

Date:

25-Sep-1996 11:20am EDT

From:

Melvin Robinson

MROBINSO@FDAEM@SSWMBX@FDAOC

Dept: Tel No:

TO: GHARTLAG@FDAEM@SSWMBX@FDAOC

CC: FERGUSONS@A1@FDACD
CC: RUSSELLW@A1@FDACD

CC: GDOMINGO@FDAEM@SSWMBX@FDAOC

Subject: 74-760

TO: *Gretchen Hartlage, CSO, Grand Rapids Resident Post

CC: *William Russell, Reviewer, HFD-629
*George Domingo, Det-Do Drug Team Leader
*Shirnette Ferguson, HFD-324

SIBJ: *ANDA 74-760, PAI Request

*Melvin O. Robinson, PAI Manager, Det-Dp

PRDT: *Miconazole Nitrate Vaginal Cream, 2%,

PROFILE: OIN

FIRM: *Perrigo Co. *117 Water Street *Allegan, MI 49010 *CF# 1811666

This is to acknowledge receipt of the HFD-324 inspection request memo dated September 23, 1996. A copy is being sent to Grand Rapids today.

Gretchen: I cannot find any Field Copy in the Detroit Office on this NADA, but there is a card in _____ Card File indicating we had something about the application. Maybe it is one that I handed to you a couple of weeks ago. *I put this into WATS with a 3/31/97 Due Date so I could give it a B priority. That is because there is not a User-Fee involved. We already have another Priority B PAI pending for an Ibuprofen liquid product with a due date of 2/28/97. Both should be conducted at the same time, with GMP coverage of those two profile classes.

I informed HFD-324 recently that the firm was scheduled for December 1996, and we expect to do them for ____ GMP's after January 1st.

The current profile shows OIN as inactive, while $\overline{}$ is due for two years the end of February.

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REVIEW OF PROFESSIONAL LABELING DIVISION OF LABELING AND PROGRAM SUPPORT LABELING REVIEW BRANCH

Date of Review:

September 17, 1996 (Minor Amendment)

ANDA Number: 74-760

Review Cycle: #2 (Draft and FPL)

Date of Submission: August 9, 1996

Applicant's Name [as seen on 356(h)]: L. Perrigo Company

Manufacturer's Name (If different than applicant): Same

Proprietary Name: None

Established Name: Miconazole Nitrate Vaginal Cream, 2%

LABELING DEFICIENCIES, WHICH ARE TO BE INCORPORATED WITH THE

Reviewer: Lillie D. Golson

CHEMISTRY COMMENTS TO THE FIRM:

CONTAINER (45 g tube)

Satisfactory

2. CARTON (1 reusable applicator)(7 disposable applicators)

Satisfactory

INSERT

Satisfactory in draft. Prepare and submit final printed patient package insert labeling.

Please note that we reserve the right to request further changes in your labels and/or labeling based upon changes in the approved labeling of the listed drug or upon further review of the application prior to approval.

REVIEW OF PROFESSIONAL LABELING CHECK LIST

Applicant's Established Name	Yes	No	N.A.
Different name than on acceptance to file letter?		х	
Is this product a USP item? If so, USP supplement in which verification was assured.		х	
USP 23, Supplement 6 and product has not been proposed for the PF.			
Is this name different than that used in the Orange Book?		х	
Error Prevention Analysis			
PROPRIETARY NAME			
Has the firm proposed a proprietary name? If yes, complete this subsection.		х	
PACKAGING			
The applicant is proposing two packaging configurations, one 45 g tube with one reusable applicator or 7 disposable applicators			
Is this a new packaging configuration, never been approved by an ANDA or NDA? If yes, describe in FTR.		x	
Is this package size mismatched with the recommended dosage? If yes, the Poison Prevention Act may require a CRC.		x	
Does the package proposed have any safety and/or regulatory concerns?		x	
Conflict between the DOSAGE AND ADMINISTRATION and INDICATIONS sections and the packaging configuration?		x	
Is the strength and/or concentration of the product unsupported by the insert labeling?		x	
Individual cartons required? Issues for FTR: Innovator individually cartoned? Light sensitive product which might require cartoning? Must the package insert accompany the product?			
Package insert (EDUCATIONAL BROCHURE) should accompany the product. The carton is needed to store the reusable tube of cream and it applicator(s).			
Are there any other safety concerns?		х	
LABELING			

are the recommendations supported and is the difference acceptable?				
Are there any other safety concerns? LABELING Is the name of the drug unclear in print or lacking in prominence? (Name should be the most prominent information on the label). Has applicant failed to clearly differentiate multiple product strengths? Contrasting colors are being used for the one applicator and 7 applicators cartons. Is the corporate logo larger than 1/3 container label? (No regulation - see ASHP guidelines) Is the Manufactured by/Distributor statement incorrect or falsely inconsistent between labels and labeling? Is "Jointly Manufactured by", statement needed? Inactive Ingredients: (FTR: List page # in application where inactives are listed) Page 98, Volume 1.1 Does the product contain alcohol? If so, has the accuracy of the statement been confirmed? Do any of the inactives differ in concentration for this route of administration? Any adverse effects anticipated from inactives (i.e., benzyl alcohol in neonates)? Is there a discrepancy in inactives between DESCRIPTION and the composition statement? Has the term "other ingredients" been used to protect a trade secret? If so, is claim x supported? USP Issues: (FTR: List USP/NDA/ANDA dispensing/storage recommendations) NDA - Store at room temperature, 15°-30°C (59°-86°F). Avoid heat over 30°C or 86°F. ANDA - Same as innovator Do container recommendations fail to meet or exceed USP/NDA recommendations? If so, are the recommendations supported and is the difference acceptable?	sensitive product which might require cartoning? Must the package insert accompany the			
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	Do container recommendations fail to meet or exceed USP/NDA recommendations? If so, are the recommendations supported and is the difference acceptable?		х	
The state of the s	Is the product light sensitive? If so, is NDA and/or ANDA in a light resistant container?		х	
]

FOR THE RECORD:

- 1. Labeling review based on Advanced Care Product's labeling approved 2/9/95 for Monistat® 7 Vaginal Cream.
- 2. Applicant's original application only included one reusable applicator; however, Perrigo amended this application February 6, 1996 to also include the option of marketing with 7 disposable applicators.
- 3. Perrigo has included the statement "Compare to Monistat® 7's active ingredient" on the carton which is acceptable language when a generic firm wants to compare its product with the RLD on its labeling.
- 4. Perrigo submitted printer's proof as FPL. Since this is a minor amendment, firm will be telephoned regarding FPL for their package insert labeling. Firm will also be asked to try to enhance the illustrations on their disposable insert.
- 5. All other FTR comments are contained within the Labeling Reviewer's Checklist.

Primary Reviewer Date

Secondary Reviewer Date

John Grace

Daté

Acting Team Leader, Labeling Review Branch

cc: ANDA 74-760

HFD 613/LGolson/CHoppes/JGrace

HFD 627 Nashed Nashed

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Division File

see x:/new/firmsnz/perrigo/ltrs&rev/74760na2.1

REVIEW OF PROFESSIONAL LABELING DIVISION OF LABELING AND PROGRAM SUPPORT LABELING REVIEW BRANCH

Date of Review: August 27, 1996 Date of Submission: Aug. 9, 1996

Primary Reviewer: Charlie Hoppes

Secondary Reviewer: John Grace

ANDA Number: 74-760

Review Cycle: #2

Applicant's Name [as seen on 356(h)]: L. Perrigo Company

Manufacturer's Name (If different than applicant):

Proprietary Name: None

Established Name: Miconazole Nitrate Vaginal Cream, 2%

LABELING DEFICIENCIES, WHICH ARE TO BE INCORPORATED WITH THE CHEMISTRY COMMENTS TO THE FIRM:

- A. CHEMISTRY DEFICIENCIES
- B. LABELING DEFICIENCIES
 - 1. CONTAINER (45 g tube)

On the principal display panel, it is unnecessary for the established name to appear twice. You may delete the smaller printed established name, and increase the prominence of "2%".

Main display panel: See CONTAINER comment.

3. EDUCATIONAL BROCHURE (1 reusable applicator)
Satisfactory in draft. (7 disposable applicators)

Revise your package insert labeling, as instructed above, and submit the container labels, carton and insert labeling in final print.

Please note that we reserve the right to request further changes in your labels and/or labeling based upon changes in the approved labeling of the listed drug or upon further review of the application prior to approval.

To facilitate review of your next submission, and in accordance with 21 CFR 314.94(a)(8)(iv), please provide a side-by-side comparison of your proposed labeling with your last submission with all differences annotated and explained.

REVIEW OF PROFESSIONAL LABELING CHECK LIST

Applicant's Established Name	Yes	No	N.A.
Different name than on acceptance to file letter?		х	
Is this product a USP item? If so, USP supplement in which verification was assured.		x	
USP 23, Supplement 6 and product is not been proposed for the PF.			
Is this name different than that used in the Orange Book?		х	
Error Prevention Analysis			
PROPRIETARY NAME	<u> </u>		
Has the firm proposed a proprietary name? If yes, complete this subsection.		х	
PACKAGING			
The applicant is proposing two packaging configurations, one 45 g tube with one reusable applicator or 7 disposable applicators			
Is this a new packaging configuration, never been approved by an ANDA or NDA? If yes, describe in FTR.		х	
Is this package size mismatched with the recommended dosage? If yes, the Poison Prevention Act may require a CRC.		x	
Does the package proposed have any safety and/or regulatory concerns?		x	
Conflict between the DOSAGE AND ADMINISTRATION and INDICATIONS sections and the packaging configuration?		х	
Is the strength and/or concentration of the product unsupported by the insert labeling?		X	

Is the strength and/or concentration of the product unsupported by the insert labeling?	x	
Individual cartons required? Issues for FTR: Innovator individually cartoned? Light sensitive product which might require cartoning? Must the package insert accompany the product?		
Package insert (EDUCATIONAL BROCHURE) should accompany the product. The carton is needed to store the reusable tube of cream and it applicator(s).		
Are there any other safety concerns?	х	
LABELING		
Is the name of the drug unclear in print or lacking in prominence? (Name should be the most prominent information on the label).	x	
Has applicant failed to clearly differentiate multiple product strengths?	х	
Contrasting colors are being used for the one applicator and 7 applicators cartons.		!
s the corporate logo larger than 1/3 container label? (No regulation - see ASHP guidelines)	x	
s the Manufactured by/Distributor statement incorrect or falsely inconsistent between labels and labeling? Is "Jointly Manufactured by", statement needed?	х	
Inactive Ingredients: (FTR: List page # in application where inactives are listed)		_
Page 98, Volume 1.1		
Does the product contain alcohol? If so, has the accuracy of the statement been confirmed?	х	-
Do any of the inactives differ in concentration for this route of administration?	x	
Any adverse effects anticipated from inactives (i.e., benzyl alcohol in neonates)?	х	
s there a discrepancy in inactives between DESCRIPTION and the composition statement?	х	
Has the term "other ingredients" been used to protect a trade secret? If so, is claim upported?	х	
JSP Issues: (FTR: List USP/NDA/ANDA dispensing/storage recommendations)		-
NDA - Store at room temperature, 15°-30°C (59°-86°F). Avoid heat over 30°C or 86°F.	and	
NDA - Same as innovator		
Oo container recommendations fail to meet or exceed USP/NDA recommendations? If so, re the recommendations supported and is the difference acceptable?	x	
s the product light sensitive? If so, is NDA and/or ANDA in a light resistant container?	x	

Bioequivalence Issues: (Compare bioeqivalency values: insert to study. List Cmax, Tmax, T 1/2 and date study acceptable)		х
Results pending.		
Patent/Exclusivity Issues: FTR: Check the Orange Book edition or cumulative supplement for verification of the latest Patent or Exclusivity. List expiration date for all patents, exclusivities, etc. or if none, please state.		
None pending.		

NOTE TO CHEMIST:

Please notify Labeling Reviewer if there are no chemistry deficiencies. If this is the case, since the application is in Minor Amendment status, we will notify the firm of the labeling deficiencies by telecon.

FOR THE RECORD:

- Labeling review based on Advanced Care Product's labeling approved 2/9/95 for Monistat® 7 Vaginal Cream.
- 2. Applicant's original application only included one reusable applicator; however, Perrigo amended this application February 6, 1996 to also include the option of marketing with 7 disposable applicators.
- 3. Perrigo has included the statement "Compare to Monistat® 7's active ingredient" on the carton which is acceptable language when a generic firm wants to compare its product with the RLD on its labeling.
- 4. All other FTR comments are contained within the Labeling Reviewer's Checklist.

	7/5/96
Primary Reviewer	Date
	7/5/96
Acting ream Leader Labeling Review Branch	Date / /
V	

REVIEW OF PROFESSIONAL LABELING DIVISION OF LABELING AND PROGRAM SUPPORT LABELING REVIEW BRANCH

Date of Review:

Date of Submission:

May 10, 1996

December 22, 1995 (original) January 31, 1996 (amendment)

Primary Reviewer:

Lillie D. Golson

Secondary Reviewer: John Grace

ANDA Number: 74-760

Review Cycle: #1

Applicant's Name [as seen on 356(h)]: L. Perrigo Company

Manufacturer's Name (If different than applicant):

Proprietary Name: None

Established Name: Miconazole Nitrate Vaginal Cream, 2%

LABELING DEFICIENCIES, WHICH ARE TO BE INCORPORATED WITH THE CHEMISTRY COMMENTS TO THE FIRM:

- A. CHEMISTRY DEFICIENCIES
- B. LABELING DEFICIENCIES
 - 1. CONTAINER (45 g tube)

Revise your expression of strength to read, "Miconazole Nitrate Vaginal Cream, 2%".

2. CARTON

- (1 reusable applicator)
- (7 disposable applicators)

See CONTAINER comment.

- 3. EDUCATIONAL BROCHURE
 - a. See CONTAINER comment
 - b. Directions for Use

Revise to include the following step and accompanying drawing:

J. 10

After each use, replace cap and roll tube from bottom (as shown).

(Please note: Neither text nor drawing are included in your December 22, 1995 submission; however, the drawing but not the text is included in your January 31, 1996 submission.)

Revise your package insert labeling, as instructed above, and submit the container labels, carton and insert labeling in final print. Please note that we reserve the right to request further changes in your labels and/or labeling based upon changes in the approved labeling of the listed drug or upon further review of the application prior to approval.

REVIEW OF PROFESSIONAL LABELING CHECK LIST

Applicant's Established Name	Yes	No	N.A.
Different name than on acceptance to file letter?		x	
Is this product a USP item? If so, USP supplement in which verification was assured. USP 23, Supplement 6 and product is not been proposed for the PF.		х	
Is this name different than that used in the Orange Book?		x	
Error Prevention Analysis			
PROPRIETARY NAME			
Has the firm proposed a proprietary name? If yes, complete this subsection.		х	
PACKAGING			
The applicant is proposing two packaging configurations, one 45 g tube with one reusable applicator or 7 disposable applicators			
Is this a new packaging configuration, never been approved by an ANDA or NDA? If yes, describe in FTR.		x	
Is this package size mismatched with the recommended dosage? If yes, the Poison Prevention Act may require a CRC.		x	
Does the package proposed have any safety and/or regulatory concerns?		x	
Conflict between the DOSAGE AND ADMINISTRATION and INDICATIONS sections and the packaging configuration?		x	

Is the strength and/or concentration of the product unsupported by the insert labeling?	x	
Individual cartons required? Issues for FTR: Innovator individually cartoned? Light sensitive product which might require cartoning? Must the package insert accompany the product?		
Package insert (EDUCATIONAL BROCHURE) should accompany the product. The carton is needed to store the reusable tube of cream and it applicator(s).		
Are there any other safety concerns?	х	
LABELING		
Is the name of the drug unclear in print or lacking in prominence? (Name should be the most prominent information on the label).	x	
Has applicant failed to clearly differentiate multiple product strengths?	х	
Contrasting colors are being used for the one applicator and 7 applicators cartons.		!
s the corporate logo larger than 1/3 container label? (No regulation - see ASHP guidelines)	x	
s the Manufactured by/Distributor statement incorrect or falsely inconsistent between labels and labeling? Is "Jointly Manufactured by", statement needed?	х	
Inactive Ingredients: (FTR: List page # in application where inactives are listed)		_
Page 98, Volume 1.1		
Does the product contain alcohol? If so, has the accuracy of the statement been confirmed?	х	-
Do any of the inactives differ in concentration for this route of administration?	x	
Any adverse effects anticipated from inactives (i.e., benzyl alcohol in neonates)?	х	
s there a discrepancy in inactives between DESCRIPTION and the composition statement?	х	
Has the term "other ingredients" been used to protect a trade secret? If so, is claim upported?	х	
JSP Issues: (FTR: List USP/NDA/ANDA dispensing/storage recommendations)		-
NDA - Store at room temperature, 15°-30°C (59°-86°F). Avoid heat over 30°C or 86°F.	and	
ANDA - Same as innovator		
Oo container recommendations fail to meet or exceed USP/NDA recommendations? If so, re the recommendations supported and is the difference acceptable?	x	
s the product light sensitive? If so, is NDA and/or ANDA in a light resistant container?	x	

	equivalence Issues: (Compare bioeqivalency values: insert to study. List ax, Tmax, T 1/2 and date study acceptable)			x
Res	ults pending.			
supj	ent/Exclusivity Issues: FTR: Check the Orange Book edition or cumulative plement for verification of the latest Patent or Exclusivity. List expiration date all patents, exclusivities, etc. or if none, please state.			
Non	e pending.	1		
OR	THE RECORD:			
	Labeling review based on Advanced Care Product approved 2/9/95 for Monistat® 7 Vaginal Cream.	's la	abeli	ng
• 1.	Applicant's original application only included applicator; however, Perrigo amended this appl February 6, 1996 to also include the option of with 7 disposable applicators.	icati	ion	
•	Perrigo has included the statement "Compare to active ingredient" on the carton which is accept			® 71

language when a generic firm wants to compare its product

All other FTR comments are contained within the Labeling

Date

with the RLD on its labeling.

Reviewer's Checklist.

Labeling Rev. Branch

ANDA 74-760na.l

Primary Reviewer

Secondary Reviewer

cc:

RECORD OF TELEPHONE CONVERSATION/MEETING	3/21/96			
	NDA NUMBER			
Dr. Piver requested that I	74-760			
ohere the firm to determine	IND NUMBER			
il altouid the				
when they will submit the	TELECON/MEETING			
la la mutton the preguestin	APPLICANT/ SPONSOR BY TELE-PHONE			
in the dates thereases	PRODUCT NAME			
was the also conform to	Micoroyle Mitrall			
by for on Jeonuary 15, 1996. They're linear Stated that they	Vaginal Crean			
Juga liver	FIRM NAME			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Perrizo			
	<i>'</i>			
information and hove				
allevely submitted it to	NAME AND TITLE OF PERSON WITH WHOM CONVERSATION WAS HELD			
ObD. She stated that week.	Ginger Greene			
Should arrive this week.				
	TELEPHONE NO.			
	1-616-673-7670			
SIGNATURE /S/	HTD-615			

Division of Anti-Infective Drug Products

Center for Drug Evaluation and Research
Food and Drug Administration
5600 Fishers Lane, HFD-520
Rockville, MD 20857

FACSIMILE TRANSMISSION

DATE: 8.24.95 Number of Pages (including cover sheet) 2
TO:

TO: Jacqueline M. Eaton, Regulatory Affairs Manager

COMPANY: Perrigo Company

FAX NUMBER: 616 673-7655

MESSAGE: RE: ANDA 74-395

Attached is prototype of information needed for completion of my review.

- 1. Mycological Cure need visit specific mycological cure rates -- combined KOH/culture cure rate for each re-visit.
- 2. Clinical Cure need visit specific clinical cure rates -- compatible with diagnosis of clinical cure as in the protocol -- also, rate/visit.

NOTE: We are providing the attached information via telefacsimile for your convenience. This material should be viewed as unofficial correspondence. Please feel free to contact me if you have any questions regarding the contents of this transmission.

FROM: Dr. Piver

TITLE: Medical Officer

TELEPHONE: 301 443-4280 FAX NUMBER 301-443-5803 2227

THIS DOCUMENT IS INTENDED ONLY FOR THE USE OF THE PARTY TO WHOM IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILIEGED, CONFIDENTIAL, AND PROTECTED FROM DISCLOSURE UNDER APPLICABLE LAW. If you are not the addressee, or a person authorized to deliver the document to the addressee, you are hereby notified that any on the content of this communication, copying, or other action based have received this document in error, please immediately notify thank you.

ELECTRONIC MAIL MESSAGE

Date:

01-Oct-1996 05:29pm EDT

From:

Mark Anderson ANDERSONM

Dept:

HFD-617

MPN2 113

Tel No:

301-594-0360 FAX 301-594-3839

Regina Alivisatos TO:

Brad Leissa

(ALIVISATOSR)

(LEISSAB)

Subject: Final concurence with Perrigo Ltr.

Drs. Alivisatos and Leissa,

Sorry to bother you on this again, but just to make sure you are both in agreement, please look over comments 1 and 2 in the letter to make sure they say what you want.

It appears the way comment #1 is now written it may make comment 2 unecessary (we are asking for dates of therapy now in comment 1)? T' nks!

Mark

before HFD-520 is able to complete a substantive review of the data submitted the following additional information is required:

- 1. Please submit summary information in line form, by center for each patient, to include demographics, date of enrollment, dates of therapy, dates of post-therapy visits and their relationship to the treatment stop date. (this came from Dr. Alivistatos e mail of 10/30 7:54 a.m.) 2.
 - Please provide information describing when each patient self-administered the drug.

ELECTRONIC MAIL MESSAGE

Date:

02-Oct-1996 07:58am EDT

From:

Brad Leissa LEISSAB

Dept:

HFD-520

CRP2 S337

Tel No:

301-827-2171 FAX 301-827-2325

TO: Mark Anderson TO: Regina Alivisatos

(ANDERSONM) (ALIVISATOSR)

Subject: Re: Final concurence with Perrigo Ltr.

Mark,

Comment 2 is different from Comment 1. Comment 1 says we need to know how follow up visits relate to the last day of therapy. This is one issue.

Comment 2 asks for information about the compliance with which patients self-administered the drug. This is a different issue.

The company's response from Comment 2 will help us learn whether the patients received at least 80% of the proscribed 7 day dosing. So, if a ent started study drug on 9/1 and stopped on 9/7 (7 days of therapy) but / self-administered on days 9/1, 9/2, 9/3, and 9/7, this would demonstrate that the patient violated the study protocol dosing requirement, and thus they would be nonevaluable. Brad

>Drs. Alivisatos and Leissa,

>Sorry to bother you on this again, but just to make sure you are both in >agreement, please look over comments 1 and 2 in the letter to make sure >what you want.

>It appears the way comment #1 is now written it may make comment 2

> (we are asking for dates of therapy now in comment 1)?

>Thanks! Mark

for

>Before HFD-520 is able to complete a substantive review of the data

following additional information is required:

1. Please submit summary information in line form, by center each patient, to include demographics, date of enrollment,

of therapy, dates of post-therapy visits and their

to the treatment stop date. (this came from Dr.

Alivistatos e

>mail of 10/30 7:54 a.m.)

Please provide information describing when each patient

self-administered the drug.

ELECTRONIC MAIL MESSAGE

Date:

02-Oct-1996 07:17am EDT

N - 301

From:

Regina Alivisatos

Dept:

ALIVISATOSR

Tel No:

HFD-520 CRP2

301-827-2198

Mark Anderson

(ANDERSONM)

CC: Brad Leissa

(LEISSAB)

Subject: Re: Final concurence with Perrigo Ltr.

>Mark, I think you are right, everything could be combined. with the company regarding a question I and have documented that conversation in my review.

Basically, they need to verify in wriiten form, what they told me, that is that the revisit dates that they have provided represent the number of days after therapy. Additionally, in order to independently verify these dates, the line listings are necessary with the actual dates.

>Drs. Alivisatos and Leissa,

>Sorry to bother you on this again, but just to make sure you are both

>agreement, please look over comments 1 and 2 in the letter to make sure >what you want.

>It appears the way comment #1 is now written it may make comment 2

> (we are asking for dates of therapy now in comment 1)?

>Thanks! Mark

>Before HFD-520 is able to complete a substantive review of the data

>the following additional information is required:

Please submit summary information in line form, by center for

each patient, to include demographics, date of enrollment, dates

of therapy, dates of post-therapy visits and their tionship

to the treatment stop date. (this came from Dr.

Alivistatos e >mail of 10/30 7:54 a.m.)

> 2. Please provide information describing when each patient
> self-administered the drug.
> I think that this clarifies what I need
Thanks

Regina Alivisatos 7-2199

```
Office of Generic Drugs
                                  Center for Drug Evaluation and Research
>CC:
         ANDA 74-760/ Orig File, Dup File
         Div File
         Field Copy
         HFD-600/Reading File
         HFD-650/MAnderson, CST
         HFD-520/RAlivisatos
         HFD-520-BLeissa
>BIO-LETTER INCOMPLETE
>Endorsements:
        R.Alivisatos/B.Leissa
        S.Nerurkar
        M.Anderson
>DRAFTED MDA
                         9/29/96
                                         X:\WPFILE\BIO\N74760D3.def
```

ELECTRONIC MAIL MESSAGE

Date:

01-Oct-1996 08:00am EDT

From:

Brad Leissa

LEISSAB

Dept:

HFD-520

CRP2 S337

Tel No:

301-827-2171 FAX 301-827-2325

TO: Regina Alivisatos

Mark Anderson

(ALIVISATOSR)

(ANDERSONM)

Subject: Re: FWD: Re: Draft Def. Letter for Perrigo 74-760

Mark,

>>Mark,

So that you understand, when Dr. Alivisatos refers to our requesting the medication self-administration records, we don't want copies of the actual records. However, we *would* like Perrigo to submit an amendment containing the information describing when patients self-administered the drug. this way, we can check drug compliance of the patients.

Just wanted to clarify in case there was an ambiguity.

```
>I am in agrrement with paragraph one.
 >>However,I would delete the last paragraph and only have a sentence that
 >states that Medication self-administration records are requested.
 >Because the duration of therapy was 1 week, the example was to
 >illustrate that that was what I wanted.
>Regina Alivisatos
>7-2199
>>
>>Drs. Alivisatos and Leissa,
>>Thanks for your prompt feedback on the draft letter. Am I right in
>>understanding you are in agreement with original wording for comment 1
>>prefer:
>>Please submit summary information in line form, by center, to include
>>demographics, date of enrollment, dates of therapy, dates of
   t-therapy visits
   id their relationship to the treatment stop date.
>>
>>Regarding your comment about study taking longer than 1 week
```

```
>>wasn't sure what was meant by the E. Mail I got from Dr. Leissa in the
>10/25/96
>>E mail:
>>
>>"Medication self-administration records for all patients (e.g.,
>>10/2/93-10/9/93). Thats why I put those dates in comment 2. Please
>>revised comment number 2 for the letter.
>>
>>Thanks, Mark
>>
```

APPEARS THIS WAY ON ORIGINAL

ELECTRONIC MAIL MESSAGE Date: 01-Oct-1996 06:53am EDT From: Regina Alivisatos ALIVISATOSR Dept: HFD-520 CRP2 N - 301Tel No: 301-827-2198 Mark Anderson (ANDERSONM) Brad Leissa (LEISSAB) Subject: Re: FWD: Re: Draft Def. Letter for Perrigo 74-760 I am in agrrement with paragraph one. >However,I would delete the last paragraph and only have a sentence that states that Medication self-administration records are requested. Because the duration of therapy was 1 week, the example was to illustrate that that was what I wanted. na Alivisatos >Drs. Alivisatos and Leissa, >Thanks for your prompt feedback on the draft letter. Am I right in >understanding you are in agreement with original wording for comment 1 >Please submit summary information in line form, by center, to include >demographics, date of enrollment, dates of therapy, dates of post-therapy visits >and their relationship to the treatment stop date. >Regarding your comment about study taking longer than 1 week >wasn't sure what was meant by the E. Mail I got from Dr. Leissa in the > "Medication self-administration records for all patients (e.g., >10/2/93-10/9/93). Thats why I put those dates in comment 2. Please ised comment number 2 for the letter.

TO:

CC:

>Mark,

7-2199

OR do you >prefer:

>E mail:

r ride a

>Thanks,

Mark

ELECTRONIC MAIL MESSAGE

Date:

30-Sep-1996 04:37pm EDT

From:

Mark Anderson

ANDERSONM

Dept:

HFD-617

MPN2 113

Tel No:

301-594-0360 FAX 301-594-3839

TO: Regina Alivisatos TO:

Brad Leissa

(ALIVISATOSR)

(LEISSAB)

Subject: FWD: Re: Draft Def. Letter for Perrigo 74-760

Drs. Alivisatos and Leissa,

Thanks for your prompt feedback on the draft letter. Am I right in understanding you are in agreement with original wording for comment 1 OR do you

Please submit summary information in line form, by center, to include demographics, date of enrollment, dates of therapy, dates of post-therapy visits and their relationship to the treatment stop date.

rding your comment about study taking longer than 1 week (10/2-10-9) I 't sure what was meant by the E. Mail I got from Dr. Leissa in the 10/25/96 E mail:

"Medication self-administration records for all patients (e.g., 10/2/93-10/9/93). Thats why I put those dates in comment 2. Please provide a revised comment number 2 for the letter.

Thanks, Mark

> APPEARS THIS WAY ON ORIGINAL

ELECTRONIC MAIL MESSAGE

Date:

30-Sep-1996 07:58am EDT

From:

Brad Leissa

LEISSAB

Dept:

HFD-520

CRP2 S337

Tel No:

301-827-2171 FAX 301-827-2325

TO: Regina Alivisatos TO:

Mark Anderson

(ALIVISATOSR) (ANDERSONM)

Subject: Re: Draft Def. Letter for Perrigo 74-760

Andrea,

The regulations don't allow us to require all CRFs without the Division Director's approval -- where we have strong reason not to trust derived data submitted by the applicant. By law, we are only allowed to *require* CRFs for patients who die or who drop out due to an adverse event.

If Perrigo provides us with the missing datapoints via a linelisting amendment, this should be sufficient.

```
>>The letter looks fine. However, I would like to phrase it so that it
>reads;: "full case report forms on all enrolled patients, or
>preferably, summary information in line form, by center, to include
>demographics, date of enrollment, dates of therapy, dates of
>post-therapy visits and their relationship to the treatment stop date.
>I belive that the study took longer than 1 week, i.e. Oct2-Oct.9
>>Thank-you
>Regina Alivisatos
>7-2199
>N-343
>>
>>
>>Dr. Alivisatos,
```

>>

>>Below please find a draft of a letter we prepared to go to Perrigo for

>>Miconazole Vaginal Cream, based on the E. Mail received 9/25/96 from

ease indicate concurrance via E. Mail or provide corrections.

>>Thanks, Mark Anderson, Project Manager (594-0315)

```
>>DRAFT:
  >>
  >>ANDA 74-760
  >>
  >>
  >>
  >>L Perrigo Co.
  >>Attention: Jacqueline Eaton
  >>117 Water Street
  >>Allegan, MI 49010
  >>
 >>
 >>Dear Madam:
 >>Reference is made to the Abbreviated New Drug Application, submitted on
 >>September 29, 1995, for Miconazole Nitrate Vaginal Cream.
 >>The Office of Generic Drugs in consultation with the Division of
 >>Drug Products (HFD-520) has reviewed the bioequivalence data submitted
     llowing comments are provided for your consideration:
 >>Before HFD-520 is able to complete a substantive review of the data
 >>the following additional information is required:
                   Please submit absolute dates (versus relative dates)
 >>
           1.
 >for ALL
>>patient visits (i.e., pre-enrollment screening visit, enrollment visit,
>>post-therapy visit and second post-therapy visit).
>>
                  Please provide medication self-administration records
>for all
>>patients during the study period October 2, 1993 - October 9, 1993).
                  Please provide individual signs and symptoms
>values/scores for
>>all patients at each visit.
>>
                  Please calculate and report a mean clinical symptom
>score at
>>each visit for both study arms for the evaluable population.
>>As described under 21 CFR 314.96 an action which will amend this
             The amendment will be required to
   `quired.
                                                address all of the
    ments
>>presented in this letter. Should you have any questions, please call
>>Anderson, Project Manager, at (301) 594-0315. In future correspondence
```

>>

>>this issue,	please include a copy of this letter.
>>	
>> '	Sincerely yours,
>>	•
>>	
>>	
·>	Keith K. Chan, Ph.D.
·>	Director, Division of Bioequivalence
·>	Division of Bloequivalence

APPEARS THIS WAY
ON ORIGINAL

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>>
>>
>>
>>
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>>
>>
                                    Office of Generic Drugs
>>
                                    Center for Drug Evaluation and Research
>>
>>CC:
          ANDA 74-760/ Orig File, Dup File
>>
>>
          Div File
          Field Copy
>>
          HFD-600/Reading File
>>
          HFD-650/MAnderson, CST
>>
          HFD-520/RAlivisatos
>>
          HFD-520-BLeissa
>>BIO-LETTER INCOMPLETE
>>Endorsements:
          R.Alivisatos/B.Leissa
          S.Nerurkar
>>
          M.Anderson
>>
>>
>>DRAFTED MDA
                           9/29/96
                                           X:\WPFILE\BIO\N74760D3.def
```

APPEARS THIS WAY

I Emailed to 520

ELECTRONIC MAIL MESSAGE

Bradt both message From.
Regira read wessage From.

on 9/30 Receipt Dept:
Tel No:

sent (ALIV)

29-Sep-1996 02:06pm EDT

Mark Anderson

ANDERSONM

HFD-617 MPN2 113

301-594-0360 FAX 301-594-3839

TO: Regina Alivisatos

(ALIVISATOSR)

CC: Brad Leissa CC:

(LEISSAB) (NERURKAR)

Shriniwas Nerurkar CC: Keith Chan

(CHANK)

CC: Mark Anderson

(ANDERSONM)

Subject: Draft Def. Letter for Perrigo 74-760

Dr. Alivisatos,

Below please find a draft of a letter we prepared to go to Perrigo for their Miconazole Vaginal Cream, based on the E. Mail received 9/25/96 from Dr. Leissa.

Please indicate concurrance via E. Mail or provide corrections.

.ks, Mark Anderson, Project Manager (594-0315)

DRAFT:

ANDA 74-760

L Perrigo Co.

Attention: Jacqueline Eaton

117 Water Street Allegan, MI 49010

Dear Madam:

Reference is made to the Abbreviated New Drug Application, submitted on September 29, 1995, for Miconazole Nitrate Vaginal Cream.

The Office of Generic Drugs in consultation with the Division of Anti-infective Drug Products (HFD-520) has reviewed the bioequivalence data submitted and the following comments are provided for your consideration:

Before HFD-520 is able to complete a substantive review of the data submitted following additional information is required:

Please submit absolute dates (versus relative dates) for ALL patient visits (i.e., pre-enrollment screening visit, enrollment visit, first post-therapy visit and second post-therapy visit).

- 2. Please provide medication self-administration records for all patients during the study period October 2, 1993 October 9, 1993).
- 3. Please provide individual signs and symptoms values/scores for all patients at each visit.
- 4. Please calculate and report a mean clinical symptom score at each visit for both study arms for the evaluable population.

As described under 21 CFR 314.96 an action which will amend this application is required. The amendment will be required to address all of the comments presented in this letter. Should you have any questions, please call Mark Anderson, Project Manager, at (301) 594-0315. In future correspondence regarding this issue, please include a copy of this letter.

Sincerely yours,

Keith K. Chan, Ph.D. Director, Division of Bioequivalence Office of Generic Drugs Center for Drug Evaluation and Research

CC:

ANDA 74-760/ Orig File, Dup File Div File Field Copy HFD-600/Reading File HFD-650/MAnderson, CST HFD-520/RAlivisatos HFD-520-BLeissa

BIO-LETTER INCOMPLETE

APPEARS THIS WAY

Endorsements:

R.Alivisatos/B.Leissa

S.Nerurkar

M.Anderson

DRAFTED MDA

9/29/96

X:\WPFILE\BIO\N74760D3.def

MESSAGE MAIL ELECTRONIC

Date:

25-Sep-1996 01:55pm EDT

From:

Cecelia Parise

PARISEC

Dept:

MPN2 113 HFD-615

Tel No:

301-594-0315 FAX 301-594-0174

(ANDERSONM)

TO: Mark Anderson

Subject: FWD: ANDA 74-760

Mark,

Here is the information that HFD 520 needs to complete their review.

Cecelia

APPEARS THIS WAY ON ORIGINAL

ELECTRONIC MAIL MESSAGE

Date:

25-Sep-1996 01:40pm EDT

From:

Brad Leissa

LEISSAB

Dept:

(PARISEC)

(FANNINGM)

(FEIGALD)

(CHIC)

(ALIVISATOSR)

HFD-520

CRP2 S337

Tel No:

301-827-2171 FAX 301-827-2325

TO: Cecelia Parise

CC: Mary Fanning

CC: Regina Alivisatos

CC: David Feigal

CC: Christina Chi

Subject: ANDA 74-760

Cecilia,

As we discussed over the telephone, Dr. Alivisatos had begun her review of ANDA 74-760 (Perrigo) and has found the following fundamental deficiencies in that she is *unable* to complete a review without the following 'rmation:

Absolute dates (versus relative dates) for ALL patient visits (e.g., pre-enrollment screening visit, enrollment visit, 1st posttherapy visit, and 2nd posttherapy visit).

Medication self-administration records for all patients. (e.g., 10/2/93-10/9/93)

Individual signs and symptoms values/scores for all patients at each visit.

In addition to the above *requirements*, please ask the applicant to calculate and report a mean clinical symptom score at each visit for both study arms for the applicant's evaluable population.

As we discussed, based on the magnitude of these deficiencies, you will probably generate a not approvable (NA) letter and send this to the applicant.

Thanks...Brad

GENERIC DRUGS ADVISORY COMMITTEE

Office of Generic Drugs
Center for Drug Evaluation and Research
Food and Drug Administration

Summary Minutes of the Fourth Meeting
Ramada Inn, 8400 Wisconsin Avenue, Bethesda, Maryland
April 23-24, 1992

Committee Members Present

Terrence F. Blaschke, M.D.
Darrell Abernethy, M.D., Ph.D.
Gordon L. Amidon, Ph.D.
Barbara E. Hayes, Ph.D.
Kathleen R. Lamborn, Ph.D.
John H. Rodman, Pharm.D.
Leslie Z. Benet, Ph.D.
Judith I. Brown
Win L. Chiou, Ph.D.

Committee Member Absent

Kathleen M. Giacomini, Ph.D.

<u>Partial list of FDA Participants</u> <u>and Attendees</u>

Carl Peck, M.D.
Roger L. Williams, M.D.
Robert Jerussi, Ph.D.
P. K. Matura, Ph.D.
Jerome Skelly, Ph.D.
Charles Kumkumian, Ph.D.
Vinod Shah, Ph.D.
Gerald Meyer
John Treacy
Murray Lumpkin, M.D.
Paul Vogel
Michael Beatrice
Rashmikant Patel, Ph.D.
Agnes Wu, Ph.D.
Susan Alpert, M.D., Ph.D.

These summary minutes for the April 23-24, 1992 meeting of the Generic Drugs Advisory Committee were approved on Druge 1, 1992

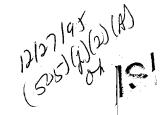
"I certify that I attended the April 23-24, 2992 meeting of the Generic Drugs Advisory Committee and that these minutes accurately reflect what transpired."

SI r. Roubein, P

Isaac r. Roubein, Ph.D. Executive Secretary

Terrence F. Blaschke, M.D.

Chairman





REGULATORY AFFAIRS 616-673-7655 FAX

FACSIMILE TRANSMISSION

NDA ORIG AMEN

TO:

MS. CECELIA PEREZ, CSO

OFFICE OF GENERIC DRUGS

COMPANY:

FDA, CDER, OPS, OGD

DATE:

DECEMBER 22, 1995

FROM:

JACQUELINE EATON JULE

REGULATORY AFFAIRS MANAGER

TOTAL NUMBER OF PAGES:

26 including this page

IF THIS TRANSMISSION IS NOT SATISFACTORY, PLEASE CALL 616-673-7603

MESSAGE:

Please find attached Perrigo's Amendment to ANDA 74-760, Miconazole Nitrate Vaginal Cream 2%. The original signed document will be sent to FDA via overnight courier.

Thanks for the opportunity to discuss this issue with you earlier today.

Have a nice holiday.

APPEARS THIS WAY

Title I of Waxman-Hatch. Most of Title I had been finalized. They are now out from the Office of Management

- 2. Four days after the above Generic Drug Advisory Committee meeting, the ANDA Final Rules issued in the Federal Register Vol. 57, No. 62, Tuesday, April 28, 1992. FDA wrote in comment #44 of the ANDA Final Rules at page 17962 (attached):
 - "...FDA has revised 314.94(a)(9) to require ANDA applicants to include such an [inactive ingredient] comparison only for drug products intended for parenteral use, ophthalmic or otic use, or topical use. ANDA applicants will be able to determine the inactive ingredients in reference listed drugs for these dosage forms because such ingredients are disclosed on the labeling ..." (emphasis added).

Clearly, the intent of the ANDA Final Rules was for ANDA applicants to provide a <u>qualitative</u> comparison of the inactive ingredients for Miconazole Nitrate Vaginal Cream and <u>not a quantitative</u> comparison since the quantitative formula is not disclosed on Ortho's Monistat 7 Vaginal Cream product labeling. Perrigo provided a qualitative comparison of the inactive ingredients in the proposed ANDA 74-760. OTC manufacturer's do not have access to the innovator's quantitative formula because neither the FDA nor the innovator reveals this information.

Perrigo has a
October 30, 1992. Their product contains the same inactives as Perrigo's proposed drug product. Please see the quantitative and qualitative comparisons or Tables I and II, attached, product is administered by the same route of administration as the reference listed drug. Perrigo obtained formulation directly from as provided for in the supply agreement. This agreement allows for (1) sourcing of finished product and (2) sharing of technical and formulation information on their approved ANDA product.
Additionally, Perrigo believed at the time of formulation and filing of the ANDA that the proposed drug product contained the same qualitative ingredients as the listed drug; i.e., that Glyceryl Monostearate pluscombined to form However, we believed that Glyceryl Monostearate needed to be included on the labeling. Perrigo is unclear as to why the listed drug does not indicate Glyceryl Monostearate on their labeling.

Perrigo also contends that information was already available to the Agency to determine that the inactive levels of the proposed drug were safe. That information is accessible to the Agency in the Inactive Ingredient Guide which list these inactives in the ranges for a drug of this route of administration. Also, the information in the clinical study for the proposed drug supports product safety. There were no unexpected adverse drug reactions reported. The stability profile also supports that these inactives do not adversely affect physical and chemical charateristics under stressed and real time storage.

(words of Dr. Roger Williams)

265

perhaps the methodology we talk about today could fail -- we will probably have to have recourse to a large-scale clinical trial.

The bias of the Office of Generic Drugs is that these large-scale clinical trials are not generally acceptable. They're cumbersome, they're expensive. I think they kind of defeat the purpose of Hatch Waxman. They're also insensitive. I think you can easily imagine that products that are inequivalent in a large clinical trial could still be labelled equivalent.

Anyway, if a generic applicant gets across these two main hurdles, the documentation of pharmaceutical equivalence and bioequivalence, then we can code them therapeutically equivalent, and they get that crucial AB rating in the orange book.

now in terms of topical products, for topical and vaginal antifungals, we did not have any blood level or pharmacologic effect methods available to document bioequivalence, so we are relying on clinical trials now for these particular products. We have no methodology in place for the topical anti-acne generic formulations, and we're going to be talking about the topical corticosteroids in this meeting.

The vasoconstrictor assay, as you all know from

(words of Dr. Murray Lumpkin)

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that Dr. Williams put up previously. As he did say under the present situation, for a drug to be accepted as an ANDA, it has to come in in a vehicle that is similar, but there have been no regulations that have said that those vehicles have to be the same. Our experience has been that different cream vehicles that have been used with the same active ingredients have been quite different. Obviously, this brings up concerns.

I want to spend a couple of minutes talking about some concerns about safety as opposed to efficacy, because that is the general thing that we're talking about today, the efficacy. In the past, when we've had such variations in the various formulations for the vehicles, there have been questions that have been raised about potentials for sensitization, potentials for phototoxicity, potentials for irritants and potentials for allergenicity. But I think as Dr. Williams pointed out, under the new final rules for the Title I, we're at least now we know that the vehicles qualitatively are going to contain the same ingredients, even though quantitatively the quote-unquote inactive ingredients might be different. These concerns are somewhat more allayed than they have been in the past. So we can turn most of our attention to that of efficacy.

What we've been trying to do, and I think what you're going to spend most of the rest of your time today,

(Please see words of Dr. Murray Lumpkin)

287

DR. RODMAN: Just to be sure that I understood you correctly, you conclude that if there is pharmaceutical equivalence, given those criteria that you outline, that you accept safety.

DR. LUMPKIN: No, I think what this establishes is pharmaceutical therapeutic efficacy equivalence. It does not establish the safety of them. This was an issue that, prior to the final rules, was bandied about a great deal, because in the new drug application process, when a new product is coming in, we have very definitive set protocols that deal with the issue of sensitization, phototoxicity and allergenicity, that the innovator companies have to show that their formulation is not doing this type of thing, or if it is, there is a reasonable risk-benefit relationship to allow it to go forward.

But I think with the new final rules, at least having qualitatively the same ingredients in the formulations, it becomes less of a concern. All this is going to give us with the methodologies we talk about today. is a way that we can feel better about therapeutic equivalence, from an efficacy perspective, not from a safety perspective.

DR. HAYES: I'd just like to ask a question.

Would you again describe your rationale for this validation proposal?

17962

dues not impose a pharmacokinetic data requirement for all labeling changes. In fact. FDA believes that most labeling changes that do not involve serious health or safety effects will be acceptable without new pharmacokinetic data. However, FDA elso believes that some labeling changes may be formulation-specific and that such charges may require additional pharmacokinetic data (e.g., addition of a food effect statement). FDA. therefore, reserves the right to examine such

Jalseling. 42. One comment proposed revising the third sentence in proposed § 314.194(a)(8)(iv), which listed certain pennissible labeling differences between the ANDA drug product and the reference listed drug, to read as foliaws:

labeling changes on a case-by-case

basis to determine whether additional

pitarmecokinetic data are necessary before the ANDA holder changes

Such differences protected by patent or accorded exclusivity by 505(j)(4)(D) of the act between the applicant's proposed labeling and labeling approved for the reference listed drug may include differences in expiration date, formulation, bioevailability, or pharmacokinetics, labeling revisions made to comply with current FDA labeling guidelines or other guidance, or emission of an indication protected by patent or accorded exclusivity under section 505(;)(4)(D) of the

The comment explained that the revision would protect ANDA applicants from "a possible claim of inducement or infringement where a nonapproved, but patented, method of administration is discussed in the innovator's label" or the labeling refers to more than one method of use and "some but fewer than all of the methods of use are entitled to nonpatent exclusivity."

FDA agrees in part with the comment and has amended the provision to state that differences between the applicant's proposed labeling and labeling approved for the reference listed drug may include omissions of an indication "or other aspect of labeling protected by putent or accorded exclusivity under section 505(j)(4)(D) of the act

Chemistry, Manufacturing, and Controls

FDA received a number of comments on the chemistry, manufacturing, and controls section of an ANDA.

43. Many comments sought further definitions or explanations regarding ANDA chemistry, manufacturing, and controls documentation requirements. including information on technical d. 'a.ls. such as determining the source of impurities, potential degradation, and test methodologies. Two comments usked FDA to develop guidelines an acceptable levels of preservatives and other inactive ingredients.

These comments raise technical questions that are beyond the scope of this rule. FDA has already issued a number of guidelines addressing many of the questions. These guidelines apply to both full and abbreviated applications, and a list of available guidelines may be obtained from CDER Executive Secretariat Staff, Center for Drug Evaluation and Research (HFD-8). Food and Drug Administration, 5600 Fishers Lane, Rockville, MD 20857. FDA will consider the comments in determining whether to revise existing guidelines or to develop new guidelines.

(4) Several comments objected to the

provisions in proposed \$ \$14.94(a)(9) requiring ANDA applicants to use the same inactive ingredients as the reference listed drug or to identify and characterize the differences between inactive ingredients. The comments stated that ANDA applicants might not know or might be unable to discover all inactive ingredients used in the reference listed drug. The comments suggested that FDA either not require that the inactive ingredients be the same or require the disclosure of the inactive ingredients used in the reference listed drug.

Because the labeling regulations do not require listing of inactive ingredients for drug products in an oral dosage form [see 21 CFR 201.100(b)(5)], ANDA applicants may be unable to discover what inactive ingredients were used in such drug products. Consequently. FDA has revised § 314.94(a)(9) to require ANDA applicants to include such a comparison only for drug products intended for parenteral use, ophthalmic or otic use, or topical use, ANDA applicants will be able to determine the inactive ingredients in reference listed drugs for these dosage forms because such ingredients are disclosed on the labeling. (See 21 CFR 201.100(b)(5).) For other drug products. FDA has revised \$ 314.94(a)(8)(ii) to require applicants only to identify and characterize the inactive ingredients in the proposed drug product and to provide information demonstrating that the inactive ingredients do not affect product safety.

45. Proposed § 314.94(a)(9](iv) atated, in part, that:

* an applicant may seek approval of a drug product (intended for ophthalmic or otic use) that differs from the reference listed drug in preservative, buffer, substance to adjust tonicity, or thickening agent provided that the applicant identifies and characterizes the differences and provides information demonstrating that the differences do not

affect the safety of the proposed drug product except that in a product intended it ophthalmic use, an applicant may not church a beller or substance to adjust tonicity for it purpose of claiming a therapoutic advantage over or difference from the listed drug, e.g., by using a balanced salt solution as a diluce as opposed to an isotonic saline solution, or by making a significant change in the pH or other change that may raise questions of irritabilisy.

(54 FR 20072 at 20023).

One comment objected to the example involving balanced salt solutions and isotonic saline solutions in proposed § 314-94(a)(9)(iv). The comment explained that changes in an ophthalmi buffer or tonicity agent from isotonic saline to belanced ealt solutions do not raise serious safety questions, and FDA cannot presume that such changes are t claim a therapeutic advantage.

When read in its entirety, the second sentence in § 314.94(a)(9)(iv) simply states that an applicant whose product is intended for ophthalmic use cannot change a buffer or substance to adjust tonicity "for the purpose of claiming a therapeutic advantage over or difference from the listed drug * * *." The rule does not state that use of a balanced salt solution as opposed to an isotonic saline solution would be impermissible in itself or that FDA would presume such changes to be for claiming a therapeutic advantage. Determining whether the applicant claims a therapeutic advantage over ut differenc from the listed drug depends on the circumstances surrounding each case.

Samples

40. FDA received one comment regarding generic drug product samples under proposed \$ 314.94(a)(10). The proposed rule would require ANDA applicants to comply with the sampling provisions at 21 CFR 314.50 (e)(1) and (e)(2) but would not require ANDA applicants to submit samples until FD.A requested them. The comment suggested revising the rule to require ANDA applicants to obtain samples and to retain them in their stability containers for all lots of a finished product. The comment added that FDA should "make itself available as a witness if requester for the distribution of samples to laboratories for bioavailability studies."

Under existing current good manufacturing practice (CGMP) regulations, manufacturers are already required to retain samples. (See 21 CFR 211.84 and 211.170.) FDA has also issue an interim rule that requires applicants who conduct in-house bioavailability and bioequivalence testing and contrac laboratories who conduct such testing t

TABLE I

QUANTITATIVE COMPARISON OF THE PROPOSED DRUG PRODUCT WITH THE REFERENCE LISTED DRUG PRODUCT AND A PREVIOUSLY APPROVED DRUG PRODUCT ADMINISTERED BY THE SAME ROUTE OF ADMINISTRATION

Listed Drug NDA 17450	6/5a	Proposed Drug ANDA 74-760 Perrigo	5/6m	
Miconazole Mitrate Benzoic Acid	20.0	20.0 Miconazole Mitrate	70.0	
BELA		SHA Glyceryl Monostearate	The second secon	
Mineral Oil	}	Mineral Oil	from the same	
Peglicol 5 Oleate	ia.	Peglicol 5 Oleate	The second second	
Pegoxol 7 Stearate		Pegoxol 7 Stearate	Secretary Secretary	-
Purified Water		Purified Water	Contraction of a	

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TABLE III

CONCENTRATION OF INACTIVE INGREDIENTS

FDA's Division of Drug Information Resources published an Inactive Ingredient Guide in October, 1993 showing the potency range for the following inactive ingredients presently in approved vaginal or topical cream drug products or conditionally approved vaginal or topical cream drug product currently marketed for human use. A copy of the appropriate pages are attached.

The potency in percent for each of Perrigo's inactive ingredients for the Miconazole Nitrate Vaginal Cream ANDA 74-760 are also indicated below.

Inactive Ingredient

Guide Potency Range

In summary, the potency of each of Perrigo's inactive ingredients is equal to or within the potency published in the Inactive Ingredient Guide.

Benzoic Acid	
вна	
Glyceryl Monostearate	
Mineral Oil	
Peglicol 5 Oleate	
Pegoxol 7 Stearate	designation of the control of the co
Purified Water	

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Proposed Drug Product

ANDA 74-760

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information

THE PERRIGO COMPANY ANALYTICAL SERVICES SPECIAL ASSAY REPORT

No. 10221

		NAL CREAM 2%		
PRODUCT CODE: 214AA		LOT: 4BH172		
SOURCE:		REQUESTED BY		
rested by:		REFERENCE: AD159p2,3		
	⊘ © JA IMES	WEE .		
Analytical was	requested by	to comp	are the physical	
naracteristics of Po	errigo's Miconaz	ole Nitrate Vac		
marketed products fro	om two other man	ufacturers. Th	e samples include	
Perrigo's test batch patch(Monistat 7, Lo	om two other man (PC#214AA, Lot#4	ufacturers. Th BH172) and the	e samples include	
Perrigo's test batch	om two other man (PC#214AA, Lot#4	ufacturers. Th BH172) and the	e samples include	
patch (Monistat 7, Lo	om two other man (PC#214AA, Lot#4 t#24B904B) used PERRIGO	ufacturers. Th BH172) and the in the bio-equi	e samples include reference valency study. Monistat 7	
Perrigo's test batch patch (Monistat 7, Lo	om two other man (PC#214AA, Lot#4 t#24B904B) used PERRIGO	ufacturers. Th BH172) and the in the bio-equi	e samples include reference valency study. Monistat 7	
rerrigo's test batch patch (Monistat 7, Lo	om two other man (PC#214AA, Lot#4 t#24B904B) used PERRIGO	ufacturers. Th BH172) and the in the bio-equi	e samples includ reference valency study. Monistat 7	

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CENTER FOR DRUG EVALUATION AND RESEARCH

APPLICATION NUMBER:

74-760

CORRESPONDENCE



April 15, 1997 **VIA FEDERAL EXPRESS**

Office of Generic Drugs, OPS, CDER, FDA
Document Control Room, MPN II
7500 Standish Place, Room 150
Rockville, MD 20855-2773
Attention: Rashmikant M. Patel, Ph.D.
Director, Div. of Chemistry I

Telephone Amendment

RE:

Miconazole Nitrate Vaginal Cream, 2%

ANDA 74-760

Telephone Amendment

AMENDMENT "/Am

Dear Dr. Patel:

This letter is in response to the Agency's telephone communication on April 14, 1997, from Joe Buchinni. In this telephone communication, the Agency requested the L. Perrigo Company to clarify the raw material specification for Miconazole Nitrate USP, which had been previously submitted for ANDA 74-760, Miconazole Nitrate Vaginal Cream, 2% in the minor deficiency response dated August 9, 1996.

The raw material specification for Miconazole Nitrate, USP, has been revised to clarify the limits for the impurities and related substances and is enclosed. The improved specification references the same tests and limits as the previously submitted document, however, the testing descriptions are more consistent with the compendial references and with the manufacturer's certificate of analysis. In addition, a total related substances limit of _____ by ____ has been included.

Individual impurities and related substances are well controlled by the manufacturer in the drug substance at a level of less than _____ by both ____ and ____ assay methodologies. Total impurities are controlled to ____ oy the USP Ordinary Impurities test using ____ and to ____ by the EP Related Substances test using ____ In addition, the stability specifications for the finished drug product control impurities at a level of ____ individual and ____ total. The test results by the various assay methods (_____ systems) are not additive and provide separate control specifications.

As required by 21 CFR 314.94(d)(5), the L. Perrigo Company certifies that a "field copy", which is a true copy of this Telephone Amendment submitted to the FDA headquarters, has been submitted to the Detroit District Field Office.

If you have any questions, please feel free to contact me by telephone at (616) 673-7604, by FAX at 616-673-7655 or by E-mail at GLUTKE@PERRIGO.COM.

Respectfully submitted,

Virginia Y. Lutke

Virginia G. Lutke Regulatory Affairs

enc.

XC:

B. Schuster G. Boerner

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GENERIC DRUGS

APR.15.1997 3:02PM PERRIGO REG AFFHIRS



REGULATORY AFFAIRS DEPARTMENT Fax: 616-673-7655

FACSIMILE TRANSMISSION

DATE:

April 15, 1997

TO:

Mr. Joe Buchinni

FAX # 1-301-594-0180

APPEARS THIS WAY ON ORIGINAL

COMPANY:

FDA, Office of Generic Drugs

FROM:

Ginger Lutke

TEL. #

616-673-7604

CC:

NUMBER OF PAGES (INCLUDING COVER PAGE)

<u>6</u>

MESSAGE:

RE: ANDA 74-760 Miconazole Nitrate Vaginal Cream, 2% - Telephone Amendment

APPEARS THIS WAY ON ORIGINAL

Please call Lee McGinnis at (616) 673-7603 if there are transmission problems.

CONPLENTIALITY NOTE: The documents accompanying this telecopy transmission contain information belonging to the Parrigo Company which is intended only for the use of the addressee. If you are not the intended recipient, you are hereby notified that any disclosure, which is intended only for the use of the addressee. If you are not the intended recipient, you are hereby notify prohibited. If you have copying, distribution or the taking of any action in reliance on the contents of this telecopy in error, please immediately notify us by telephone to arrange for the return of the original documents to us.

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October 29, 1996 VIA FEDERAL EXPRESS

Office of Generic Drugs, OPS, CDER, FDA
Document Control Room, MPN II
7500 Standish Place, Room 150
Rockville, MD 20855-2773
Attention: Keith K. Chan, Ph.D.
Director, Div. of Bioequivalence

<u>AMENDMENT</u>

RE: Miconazole Nitrate Vaginal Cream, 2%

ANDA 74-760 Amendment

Dear Dr. Chan:

This letter is in response to the Agency's communication dated October 8,1996. In that letter, the Agency requested reformatted data for the bioequivalence study for ANDA 74-760 Miconazole Nitrate Vaginal Cream, 2%.

Please see the attached responses to the Agency's comments. If you have any questions or need any additional information, please feel free to contact me by telephone at (616) 673-7604, by FAX at 616-673-7655 or by E-mail at GGREEN@PERRIGO.COM.

Respectfully submitted,

Verginia K. Kreen

Virginia K. Green Regulatory Affairs

xc: J. Eaton

D. Jespersen

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CINERO DRUGO

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MAR 1 8 1997

L. Perrigo Company Attention: Jacqueline Eaton 117 Waters Street Allegan MI 49010

Dear Madam:

Reference is made to your abbreviated new drug application submitted pursuant to Section 505 (j) of the Federal Food, Drug and Cosmetic Act for Miconazole Nitrate Vaginal Cream, 2%.

The Division of Bioequivalence has completed its review and has no further questions at this time.

Please note that the bioequivalency comments expressed in this letter are preliminary. The above bioequivalency comments may be revised after review of the entire application, upon consideration of the chemistry, manufacturing and controls, microbiology, labeling or other scientific or regulatory issues. A revised determination may require additional information and/or studies, or may conclude that the proposed formulation is not approvable.

Sincerely yours,

^ jç

Nicholas Fleischer, Ph.D.

Director, Division of Bioequivalence

Office of Generic Drugs

Center for Drug Evaluation and Research



October 16, 1996

Office of Generic Drugs, CDER, OPS, FDA Document Control Room, MPN II 7500 Standish Place, Room 150 Rockville, MD 20855-2773

Attention:

Jerry Phillips

Director, Div. of Labeling and Program Support

RE: ANDA 74-760 Miconazole Nitrate Vaginal Cream, 2%

Final Printed Labeling for Packaging Inserts

Dear Mr. Phillips:

Per the Office of Generic Drugs request by Lilly Golson on Friday, September 20, 1996, enclosed is final printed labeling for the package inserts for ANDA 74-760 Miconazole Nitrate Vaginal Cream, 2% - Reusable Applicator and Disposable Applicators.

If you have any questions or need any additional information, please contact me by telephone at 616-673-7604, by fax at 616-673-7655 or by e-mail at GGREEN@PERRIGO.COM.

Best regards,

Virginia K. Green

Sr. Regulatory Affairs Admin.

Verginia K. Green

XC:

J. Eaton

D. Jespersen

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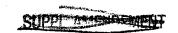
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Review Conflicted 12/17/96

Telephone Amendment

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BIOAVAILABILITY
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October 4, 1996

Office of Generic Drugs, CDER, OPS, FDA
Document Control Room, MPN II
7500 Standish Place, Room 150
Rockville, MD 20855-2773
Attention: Ali Visatos M.D.

Attention:

Ali Visatos, M.D.

Medical Officer

RE:

ANDA 74-760 Miconazole Nitrate Vaginal Cream, 2%

Confirmation Copy of Fax

Dear Dr. Visatos:

For ANDA 74-760 Miconazole Nitrate Vaginal Cream, 2%, enclosed is a hard copy of the facsimile which was sent to you today.

If you have any questions or need any additional information, please contact me by telephone at 616-673-7604, by fax at 616-673-7655 or by e-mail at GGREEN@PERRIGO.COM.

Best regards,

Virginia K. Green

Sr. Regulatory Affairs Admin.

Verginia K Green

xc:

J. Eaton

D. Jespersen

C. Parise (Office of Generic Drugs)

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October 1, 1996

NEW CORRESP

Office of Generic Drugs, CDER, OPS, FDA Document Control Room, MPN II 7500 Standish Place, Room 150 Rockville, MD 20855-2773

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Attention:

Ali Visatos, M.D.

Medical Officer

GENERIC DAUGS

RE: ANDA 74-760 Miconazole Nitrate Vaginal Cream, 2%

Telephone Conversation

Dear Dr. Visatos:

Per our conversation today concerning the "Days" column in the reformatted data tables which were submitted to the Agency on March 20, 1996, please see the attached letter from ______ The "Days" column indicates the number of days after the completion of the 7 day treatment period. It does not indicate the study day number where treatment would be considered study days 1-7 and the first follow-up would be due on study day 14

Please note that there were a number of minor protocol violations which were explained in the 03/20/96 amendment. It is our opinion that these minor protocol violations did not affect the outcome of the study. If you are of the opinion that any of these minor protocol violations should not be included in the study, please contact me immediately by telephone so we may promptly address any issues with these patients you may have. An explanation of the minor protocol violations is also enclosed with this letter.

If you have any questions or need any additional information, please contact me by telephone at 616-673-7604, by fax at 616-673-7655 or by e-mail at GGREEN@PERRIGO.COM.

Best regards, Verginia K. Gleen

Virginia K. Green

Sr. Regulatory Affairs Admin.

XC:

J. Eaton

D. Jespersen

C. Parise (Office of Generic Drugs)



NDA ORIG AMENDMENTH

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AUG 1 2 1996

August 9, 1996
VIA FEDERAL EXPRESS

GENERAL UNUGS

VIA FEDERAL EXPRESS

Office of Generic Drugs, OPS, CDER, FDA Document Control Room, MPN II 7500 Standish Place, Room 150 Rockville, MD 20855-2773

MINOR AMENDMENT

Attention: Rashmikant M. Patel, Ph.D.

Director, Div. of Chemistry I

RE: Miconazole Nitrate Vaginal Cream, 2%

ANDA 74-760 Minor Amendment

Dear Dr. Patel:

This letter is in response to the Agency's communication dated July 2, 1996. In that letter, the Agency commented on the L. Perrigo Company's ANDA 74-760 Miconazole Nitrate Vaginal Cream, 2% dated September 29, 1995. This application was also amended December 22, 1995 and January 31, 1996.

In a letter to the Agency dated July 18, 1996, the L. Perrigo Company stated they would respond to the Agency's comments within 30 days. The L. Perrigo Company is now amending this application and responding to the Agency's comments in the July 2, 1996 correspondence.

Please see the attached responses to the Agency's comments. If you have any questions or need any additional information, please feel free to contact me by telephone at (616) 673-7604, by FAX at 616-673-7655 or by E-mail at GGREEN@PERRIGO.COM.

Respectfully submitted,

Irginia K Green

Virginia K. Green Regulatory Affairs

xc: J. Eaton

D. Jespersen

E. Pileggi

*7*4*PERRIGO*

March 28, 1996 VIA FAX

Office of Generic Drugs, OPS, CDER, FDA Document Control Room, MPN II 7500 Standish Place, Room 150 Rockville, MD 20855-2773 Attention: Julius S. Piver, M.D.

Medical Officer

Miconazole Nitrate Vaginal Suppositories, 100 mg - ANDA 74-395 Miconazole Nitrate Vaginal Cream 2% - ANDA 74-760

Dear Dr. Piver:

The Perrigo Company filed an amendment for ANDA 74-760 Miconazole Nitrate Vaginal Cream 2% on 3/20/96 to reformat the data for the bioequivalence study. The Perrigo Company filed a major amendment for ANDA 74-395 Miconazole Nitrate Vaginal Suppositories on 3/21/96, also for the bioequivalence study.

The purpose of this communication is to respectfully request that the Perrigo Company's amendment dated 3/21/96 for ANDA 74-395 be reviewed prior to Perrigo's amendment dated 3/20/96 for ANDA 74-760.

Please contact me by telephone at 616-673-7604 or by FAX at 616-673-7655 if you have any questions or need any additional information. The Perrigo Company thanks you for your prompt review of these applications.

Respectfully submitted,

lirginia K. Green

Virginia K. Green Regulatory Affairs

J. Eaton

D. Jespersen

E. Pileggi

C. Parise (OGD)

CONFIRMATION COPY

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NEW COURESP

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117 Water Street Allegan, Michigan 49010 (616) 673-8451

44)PERRIGI

JUL 19 1996

July 18, 1996 VIA FEDERAL EXPRESS **GENERIC DRUGS**

Office of Generic Drugs, OPS, CDER, FDA

Document Control Room, MPN II

7500 Standish Place, Room 150

MINOR DEFICIENCY RESPONSE

Rockville, MD 20855-2773

Attention: Rashmikant M. Patel, Ph.D.

Director, Div. of Chemistry I

NEW CORRESP

NC

RE: Miconazole Nitrate Vaginal Cream, 2%

ANDA 74-760

Minor Deficiency Response

Dear Dr. Patel:

This letter is in response to the Agency's communication dated July 2, 1996. In that letter, the Agency commented on the L. Perrigo Company's ANDA 74-760 Miconazole Nitrate Vaginal Cream, 2% dated September 29, 1995. This application was also amended December 22, 1995 and January 31, 1996.

The L. Perrigo Company will respond to all comments listed in the Agency's 7/2/96 communication within 30 days. If you have any questions, please feel free to contact me by telephone at (616) at 616-673**-**7655 or 673-7604, by FAX by GGREEN@PERRIGO.COM.

Respectfully submitted,

Virginia K. Green

Virginia K. Green

Regulatory Affairs

J. Eaton xc:

D. Jespersen

E. Pileggi

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BIOAVAILABILITY

March 20, 1996

ORIG NEW CORRES

Office of Generic Drugs, CDER, FDA
Document Control Room, MPN II
7500 Standish Place, Room 150
Rockville, MD 20855-2773
Attention: Julius S. Piver, M.D.
Medical Officer

BECEIVED

MAR 2 1 1996

GENERIC DRUGS

RE: Miconazole Nitrate Vaginal Cream ANDA 74-760

Dear Dr. Piver:

This letter is in response to your faxed communication to the Perrigo Company on February 16, 1996. In that letter, you requested certain parts of the bioequivalence data for ANDA 74-760 Miconazole Nitrate Vaginal Cream be reformatted to conform to the Agency's protocol for reviewing ANDA's.

The clinical research organization which performed the study, has reformatted the data as requested. Please see the enclosed information.

In regards to the clarification of number of patient visits, the protocol required 4 visits as follows:

Visit 1: Patient Screening (medical history, physical exam, gynecological examination, vaginal secretion collection for culture, sign and symptom assessment, urine pregnancy test).

Visit 2: Baseline Assessments (blood and urinalysis and drug distribution).

Visit 3: First follow up visit 7-10 days post-treatment including gynecological examination, vaginal secretion collection for culture, and sign and symptom assessment.

Visit 4: Second follow up visit 28-34 days post-treatment including gynecological examination, vaginal secretion collection for culture, and sign and symptom assessment.

Also, please note for 3 tables, "All Eligible Enrolled Patients (baseline data)", "All Ineligible Enrolled Patients (baseline data)" and "Visit Specific Clinical Cure Rates", the signs (physicians assessment only) have been given rather than a combination of signs and symptoms (physician and patient assessments) per your direction in a telephone conversation with me (Ginger Green) on March 5, 1996.

If you have any questions or need any additional information, please feel free to contact me by telephone at (616) 673-7604 or by FAX at 616-673-7655.

Thank-you for your prompt review of this application.

Respectfully submitted,

Virginia K. Green Regulatory Affairs

cc: J. Eaton

APPEARS THIS WAY ON ORIGINAL

L. Perrigo Company Attention: Jacqueline M. Eaton 117 Water Street Allegan, MI 49010

JUL 2 1996

Dear Madam:

This is in reference to your abbreviated new drug application dated September 29, 1995, submitted pursuant to Section 505(j) of the Federal Food, Drug, and Cosmetic Act, for Miconazole Nitrate Vaginal Cream, 2%.

Reference is also made to your amendments dated December 22, 1995, and January 31, 1996.

The application is deficient and, therefore, not approvable under Section 505 of the Act for the following reasons:

A. Chemistry Deficiencies

6. You claim on page 9 that there is no market exclusivity for the listed drug product Monistat 7 combination pack. That is not the correct listed drug for this ANDA. Please correct.

B. Labeling Deficiencies

1. CONTAINER (45 g tube)

Revise your expression of strength to read, "Miconazole Nitrate Vaginal Cream, 2%".

See CONTAINER comment.

- 3. EDUCATIONAL BROCHURE
 - a. See CONTAINER comment.
 - b. Directions for Use

Revise to include the following step and accompanying drawing:

After each use, replace cap and roll tube from bottom (as shown).

(Please note: Neither the text nor the drawing are included in your December 22, 1995 submission; however, the drawing but not the text is included in your January 31, 1996 submission.)

Revise your package insert labeling, as instructed above, and submit the container labels, carton and insert labeling in final print. Please note that we reserve the right to request further changes in your labels and/or labeling based upon changes in the approved labeling of the listed drug or upon further review of the application prior to approval.

In addition to responding to these deficiencies, please note and acknowledge the following in your response:

- A. The firms referenced in your application regarding the manufacturing and testing should be in compliance with CGMP's at the time of the approval.
- B. Your bio study is under review.

USP methods are the regulatory methods and will prevail in the event of dispute.

The file on this application is now closed. You are required to take an action described under 21 CFR 314.120 which will either amend or withdraw the application. Your amendment should respond to all the deficiencies listed. A partial reply will not be considered for review, nor will the review clock be reactivated until all deficiencies have been addressed. Your response to this letter will be considered a MINOR AMENDMENT and should be plainly marked as such in your cover letter. Please note that if the pending bioequivalence review is not received prior to completion of the chemistry and/or labeling review of your amendment, issuance of our subsequent action letter may be delayed. Further, if a major deficiency is cited in the bioequivalence review, the subsequent Not Approvable letter will request that the reply be declared a MAJOR AMENDMENT. have substantial disagreement with our reasons for not approving this application, you may request an opportunity for a hearing.

Sincerely yours,

18/ 21/146

So Rashmikant M. Patel, Ph.D. Director Division of Chemistry I Office of Generic Drugs Center for Drug Evaluation and Research

ANDA #74-760 cc: ANDA #74-760/DUP/Division File Field Copy HFD-600/Reading File

Endorsements:

Sements:

HFD-627/N.Nashed/5-14-96

HFD-613/L.Golson/6-10-967

HFD-613/A.Vezza for J.Phillips/6-11, S/6/19/96

Ph. D. /5-15796 // S/6/19/96 X:\WPFILE\MAJORS\NASHED\74-760\LIV F/T by MM June 17, 1996 Not Approvable - Major

Ms. Jacqueline M. Eaton Regulatory Affairs Manager Perrigo Company 117 Water Street Allegan, Michigan 49010

RE: ANDA 74-760

Dear Ms. Eaton:

I am in the process of conducting my review of the above ANDA. The data do not include several items necessary for my evaluation. As we did in ANDA 74-395, I am requesting reformatting of some of the 74-760 material to conform to our protocol for reviewing ANDAs. Your prompt attention to this request will greatly assist me in conducting and facilitating my review of this ANDA in an expeditious and consistent manner.

Thank you for your assistance.

Very truly yours,

Julius S. Piver, M.D. Medical Officer

FDA/CDER/HFD-520

9201 Corporate Boulevard Room N-332 Gaithersburg, Maryland 20857

301 827-2181 - Phone 301 827-2327 - Fax

CC: Cecelia Parise, Office Generic Drugs Janice Soreth, M.D., SMO



PECEIVED

January 31, 1996

FEB 0 2 1996

GENERIC DRUGS

Dr. Charles Ganley FDA, CDER, OPS, OGD 7500 Standish Place, Room 150 Rockville, MD 20855-2773

ORIG AMENDMENT
N/AA

Re:

Miconazole Cream Amendment for Disposable Applicators

ANDA 74-760

AMENDMENT ANDA 74-760

Dear Dr. Ganley:

Please find enclosed Perrigo's Amendment to ANDA 74-760, Miconazole Nitrate Vaginal Cream 2%. This Amendment is being filed under 21 CFR 314.60.

The purpose of the Amendment upon FDA approval, is to allow Perrigo the option of marketing the proposed drug product with seven disposable two-piece applicators and associated labeling. The of the disposable applicators is

whose

Perrigo's ANDA 74-760 accepted for filing on December 22, 1995 includes packaging and labeling information for a re-usable applicator. Upon approval of the ANDA, including this amendment, Perrigo could market product under two packaging options: (1) the re-usable applicator and associated labeling and (2) the disposable applicators and associated labeling.

An index of items included in this Amendment follows.

Respectfully submitted,

Jacqueline M. Eaton

Regulatory Affairs Manager

xc: D. Jespersen, B. Pileggi, N. Wilmore

Miss of States

L. Perrigo Company Attention: Elizabeth M Pileggi 117 Water Street Allegan, MI 49010

DEC 28 1995

Dear Madam:

We acknowledge the receipt of your abbreviated new drug application submitted pursuant to Section 505(j) of the Federal Food, Drug and Cosmetic Act.

Reference is also made to our "Refuse to File" letter dated October 19, 1995, and your amendment dated December 22, 1995.

NAME OF DRUG: Miconazole Nitrate Vaginal Cream, 2%

DATE OF APPLICATION: September 29, 1995

DATE OF RECEIPT: October 2, 1995

DATE ACCEPTABLE FOR FILING: December 22, 1995

We will correspond with you further after we have had the opportunity to review the application.

Please identify any communications concerning this application with the AND number shown above.

Should you have questions concerning this application, contact:

Anna Marie Weikel Consumer Safety Officer (301) 594-1841

Jerry Phillips

Acting Director
Division of Labeling and Program Support
Office of Generic Drugs

- 2/28/95

Center for Drug Evaluation and Research

MEW CORRESP

NC

December 22, 1995 VIA FEDERAL EXPRESS

Dr. Charles Ganley, M.D., Acting Director Office of Generic Drugs CDER, FDA Metro Park North II 7500 Standish Place, Room 150 Rockville, MD 20855-2773

RE: Miconazole Nitrate Vaginal Cream, 2%

ANDA 74-760

AMENDMENT ANDA 74-760

RECEIVED

UEC 28 1995

GENERIC DRUGS

Dear Dr. Ganley:

Perrigo is filing this amendment to ANDA 74-760 in response to the Agency's letter dated October 19, 1995 for Miconazole Nitrate Vaginal Cream, 2%. The Agency's questions and Perrigo's response to those questions were reviewed with William Russell, Consumer Safety Officer at FDA, on October 24, 1995.

Perrigo contends that the regulations do not require a comparison demonstrating that the proposed drug product is **quantitatively** the same as the reference listed drug product. Perrigo believes the agency has erroneously and unfairly applied the regulations in issuing the refusal to file letter. Therefore, the file date for Perrigo's Miconazole Nitrate Vaginal Cream ANDA 74-760 is respectfully requested to be on or about September 29, 1995.

The following information supports Perrigo's position:

In an effort to understand more about FDA's views on topical products, Perrigo attended FDA's Generic Drug Advisory Committee meeting on April 24, 1992 wherein Drs. Roger Williams and Murray Lumpkin stated that inactive ingredients for topical products do not need to be present in the same proportions as the innovator product. Please see attached pages 264, 265, 281 and 287 from the certified transcript of the meeting.

- 2. Four days after the above Generic Drug Advisory Committee meeting, the ANDA Final Rules issued in the Federal Register Vol. 57, No. 62, Tuesday, April 28, 1992. FDA wrote in comment #44 of the ANDA Final Rules at page 17962 (attached):
 - "... FDA has revised 314.94(a)(9) to require ANDA applicants to include such an [inactive ingredient] comparison only for drug products intended for parenteral use, ophthalmic or otic use, or topical use. ANDA applicants will be able to determine the inactive ingredients in reference listed drugs for these dosage forms because such ingredients are disclosed on the labeling ..." (emphasis added).

Clearly, the intent of the ANDA Final Rules was for ANDA applicants to provide a <u>qualitative</u> comparison of the inactive ingredients for Miconazole Nitrate Vaginal Cream and <u>not a quantitative</u> comparison since the quantitative formula is not disclosed on Ortho's Monistat 7 Vaginal Cream product labeling. Perrigo provided a qualitative comparison of the inactive ingredients in the proposed ANDA 74-760. OTC manufacturer's do not have access to the innovator's quantitative formula because neither the FDA nor the innovator reveals this information.

Additionally, Perrigo believed at the time of formulation and filing of the ANDA that the proposed drug product contained the same qualitative ingredients as the listed drug; i.e., that Glyceryl Monostearate plus combined to form However, we believed that Glyceryl Monostearate needed to be included on the labeling. Perrigo is unclear as to why the listed drug does not indicate Glyceryl Monostearate on their labeling.

Perrigo also contends that information was already available to the Agency to determine that the inactive levels of the proposed drug were safe. That information is accessible to the Agency in the Inactive Ingredient Guide which list these inactives in the ranges for a drug of this route of administration. Also, the information in the clinical study for the proposed drug supports product safety. There were no unexpected adverse drug reactions reported. The stability profile also supports that these inactives do not adversely affect physical and chemical characteristics under stressed and real time storage.

In an effort to provide the Agency with the information requested, Perrigo was able to determine the quantitative formula of the listed drug with the exception of Peglicol 5 oleate and mineral oil. These excipients were unable to be quantified even after using and several other analytical methods of analysis.

The safety information requested in the Agency's October 19, 1995 letter is outlined below:

- (A) The inactive ingredients in the proposed drug product have been previously approved by FDA in _______ product is administered by the same route of administration as Perrigo's proposed drug product.
- (B) Please find attached Table III demonstrating that the concentrations of the inactive ingredients of the proposed drug product are within the concentration ranges previously approved for drug products administered by the same route of administration. The FDA Inactive Ingredient Guide (applicable pages are attached), in FDA's possession, displays the potency ranges for inactive ingredients in approved or conditionally approved drug products marketed for human use.
- (C) A comparison of the physical and chemical properties of the proposed drug product with those of the reference listed drug product as well as ______, are attached in the Special Assay Report No. 10221.
- (D) Perrigo's stability data and bioclinical information included in ANDA 74-760 show that the inactive ingredients do not adversely affect the physical and chemical properties of the drug product. Further, the bioclinical information and lack of unexpected adverse drug reactions, support the safety of the inactives in the proposed drug which is administered through the same route as the listed drug.

In conclusion, the regulations do not require a comparison demonstrating that the proposed drug product is quantitatively the same as the reference listed drug product. In addition, Perrigo provided information in the ANDA which demonstrates that the qualitative difference between our drug product and the reference listed drug do not affect the safety of the proposed drug product. Perrigo believes it is inappropriate and unfair for FDA to require the information requested in the Agency's correspondence of October 19, 1995. To obtain such information creates an economic disadvantage for generic firms in that it is costly to determine the complete quantitative formulation of the listed drug's proprietary formula, and is sometimes scientifically unfeasible.

Since the Agency had all appropriate information available to them to determine fileability of the application, Perrigo respectfully requests that the file date for ANDA 74-760 be recognized as on or about September 29, 1995.

In addition, please find enclosed original signatures for the cover letter and a third field copy certification as requested in your correspondence of October 19, 1995.

If you have any further questions, please contact me directly at 616-673-7670 or at the address on this letterhead.

Respectfully submitted,

David A. Jespersen

Director, Technical Services

Jacqueline M. Eaton

Regulatory Affairs Manager

cc: B. Pileggi, D. Jespersen, G. Jazdzyk

APPEARS THIS WAY
ON ORIGINAL



September 29, 1995

Dr. Charles Ganley, M.D., Acting Director Office of Generic Drugs CDER, FDA Document Control Room #150 Metro Park North II 7500 Standish Place Rockville, MD 20855-2773

Re: Miconascle Nitrate Vaginal Cream 2%
Abbreviated New Drug Application

Dear Dr. Ganley:

The L. Perrigo company is submitting for your review and approval, an ANDA for Miconazole Nitrate Vaginal Cream 2%. This ANDA is being filed pursuant to 505(j) of the Federal Food, Drug, Cosmetic Act. Perrigo's product is identical in strength, indications, active ingredient, route of administration and dosage form to RW Johnson's MONISTAT^R 7 miconazole nitrate vaginal cream.

MONISTAT^R 7 vaginal cream (N17450 002) is listed in the Fifteenth Edition of <u>Approved Drug Products with Therapeutic Equivalence Evaluations</u> as an OTC drug with no patent protection or market exclusivity.

Should you require additional information, please contact me directly at 616-673-7670 or the address on this letterhead.

Respectfully submitted,

cqueline M. Eaton

Regulatory Affairs Manager

ORIGINAL



November 1, 1995

REQUEST FOR INFORMAL CONFERENCE

Mr. Jerry Phillips FDA, CDER, OPS, OGD 7500 Standish Place, Room 150 Rockville, MD 20855-2773

ORIGINEW CORRES

Re: Miconazole Nitrate Vaginal Cream, 2%

ANDA 74-760

Dear Mr. Phillips:

Perrigo is requesting an informal conference with the Agency to discuss the correspondence dated October 19, 1995 in reference to ANDA 74-760 for Perrigo's Miconazole Nitrate Vaginal Cream wherein the Agency refused the application for filing.

Perrigo initially contacted William Russell, Consumer Safety Officer to discuss the issue presented in the October 19 correspondence. However, Perrigo is looking for further guidance from FDA on this issue; specifically the requirement for a quantitative comparison of inactive ingredients as well as how the information can practically be obtained.

The persons at Perrigo who plan to attend the informal conference are:

Jacqueline Eaton, Regulatory Affairs Manager Greg Jazdzyk, Director of Liquid Research & Development David Jespersen, Director of Technical Services Bill VanMeter, Chief Chemist

Please call me at 616-673-7670 if you have any questions or require further information.

Respectfully submitted,

/Jacqueline M. Eaton

Regulatory Affairs Manager

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NOV 0 2 1995

GENERIC DRUGS

117 WATER STREET • ALLEGAN, MICHIGAN 49010 • (616) 673-8451

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1 copy only



CERTIFICATION OF FIELD COPY

In accordance with 21 CFR 314.94(d)(5) I certify that a field copy which is a true copy of the Miconazole Nitrate 2% Vaginal Cream Abbreviated New Drug Application has been provided to the Detroit District Field Office of the Federal Food & Drug Administration at the following address:

Mr. John Dempster
Director, Compliance Branch
Food & Drug Administration
1560 Jefferson Ave.
Detroit, MI 48207

Jacquel he M. Eaton Jacquel he M. Eaton Jacquel he M. Eaton Jacquel he M. Eaton

1.1

ANDA 74-760

OCT -8 1996

L Perrigo Co. Attention: Jacqueline Eaton 117 Water Street Allegan, MI 49010

Dear Madam:

Reference is made to the Abbreviated New Drug Application, submitted on September 29, 1995, for Miconazole Nitrate Vaginal Cream.

The Office of Generic Drugs in consultation with the Division of Anti-infective Drug Products (HFD-520) has reviewed the bioequivalence data submitted and the following comments are provided for your consideration:

The following additional information is required before HFD-520 is able to complete a substantive review of the data submitted:

- 1. Please submit summary information in line form by center for each patient, in include demographics, date of enrollment, dates of therapy, dates of post-therapy visits and their relationship to the treatment stop date.
- 2. Please provide information describing when each patient self-administered the drug.
- 3. Please provide individual signs and symptoms values/scores for all patients at each visit.
- 4. Please calculate and report a mean clinical symptom score at each visit for both study arms for the evaluable population.

As described under 21 CFR 314.96 an action which will amend this application is required. The amendment will be required to address all of the comments presented in this letter.

Should you have any questions, please call Mark Anderson, Project Manager, at (301) 594-0315. In future correspondence regarding this issue, please include a copy of this letter.

Sincerely yours,

Keith K. Chan, Ph.D.

Director, Division of Bioequivalence
Office of Generic Drugs

Center for Drug Evaluation and Research

APPEARS THIS WAY ON ORIGINAL L. Perrigo Company Attention: Elizabeth M. Pileggi 117 Water Street Allegan, MI 49010

OCT | 9 1995

Dear Madam:

Please refer to your abbreviated new drug application (ANDA) dated September 29, 1995, submitted under Section 505(j) of the Federal Food, Drug and Cosmetic Act for Miconazole Nitrate Vaginal Cream, 2%.

We have given your application a preliminary review, and we find that it is not sufficiently complete to merit a critical technical review.

We are refusing to file this ANDA under 21 CFR 314.101(d)(3) for the following reasons:

Although you have provided a **qualitative** comparison of the formulation for your proposed drug product with that of the reference listed drug product, you have not provided a comparison demonstrating that the proposed drug product is **quantitatively** the same as the reference listed drug product. In addition, if any qualitative or quantitative differences do exist between your drug product and the reference listed drug product, you must provide information to demonstrate these differences do not affect the safety of the proposed drug product [21 CFR 314.94(a)(9)(v)].

This information to demonstrate safety should include, but is not limited to: (a) information that demonstrates that the inactive ingredients have been previously approved in a drug product administered by the same route of administration; (b) information that demonstrates that the concentration of the inactive ingredients is within the concentration range previously approved for drug products administered by the same route of administration; (c) a comparison of the physical and chemical properties (eg, pH, viscosity) of the proposed drug product with that of the reference listed drug; (d) information to show that any changes in inactive ingredients do not adversely affect these properties.

Thus, it will not be filed as an abbreviated new drug application within the meaning of Section 505(j) of the Act.

In addition, while we note that you have provided the required certifications with your application, you have failed to insure that all those documents that require original signatures in the Archival copy have been signed. Please be aware that original signatures, when required, should be provided in the archival copy of the application. Please provide, with original signatures, a cover letter and a third (field) copy certification.

Within 30 days of the date of this letter you may amend your application to include the above information or request in writing an informal conference about our refusal to file the application. To file this application over FDA's protest, you must avail yourself of this informal conference.

If after the informal conference, you still do not agree with our conclusion, you may make a written request to file the application over protest, as authorized by 21 CFR 314.101(c). If you do so, the application shall be filed over protest under 21 CFR 314.101(b). The filing date will be 60 days after the date you requested the informal conference. If you have any questions please call:

<u>William Russell</u> Consumer Safety Officer (301) 594-0315

Sincerely yours,

15/ 10/19/95

Jerry Phillips
Acting Director
Division of Labeling and Program Support
Office of Generic Drugs
Center for Drug Evaluation and Research

ANDA 74-760 CC: DUP/Jacket

Division File HFD-82

Field Copy

HFD-600/Reading File

HFD-615/MBennett

Endorsement:

HFD-615/PRickman, Act-/ lef / 10/18/16 date
HFD-615/WRussell, CS / 10/13/16 date
HFD-610/CHoppes, Acts. Chief, LR / 10/18/15 date
HFD-629/PSchwartz, Sup. Chem.

WP File\russell\74\74-760

F/T by Fox 10/13/95 ANDA Refuse to File!

L PERRIGO 117 WATER ST ATTEGAN

MI 49010

ANDA #: N074760

Dear Sir/Madam:

We acknowledge the receipt of your abbreviated new drug application submitted pursuant to Section 505(j) of the Federal Food, Drug and Cosmetic Act for the following:

MICONAZOLE NITRATE

NAME OF DRUG:
COLE NITRATE Vayral (Norm)
Dosage Form: CRM Potency: 2%

USP:

DATE OF APPLICATION: 29-SEP-95

DATE OF RECEIPT: 02-OCT-95

We will correspond with you further after we have had the opportunity to review the application.

However, in the interim, please submit three additional copies of the analytical methods and descriptive information needed to perform the tests on the samples (both the bulk active ingredient(s) and finished dosage form) and validate the analytical methods. Please do not send samples unless specifically requested to do so. If samples are required for validation, we will inform you where to send them in a separate communication.

If the above methodology is not submitted, the review of the application will be delayed.

Please identify any communications concerning this application with the ANDA number shown above.

Schwardz Rondorn II HFD: 629

Sincere Yours,

Roger L. Williams, M.D. Director Office of Generic Drugs Center for Drug Evaluation and Research



September 29, 1995

Dr. Charles Ganley, M.D., Acting Director Office of Generic Drugs CDER, FDA Document Control Room #150 Metro Park North II 7500 Standish Place Rockville, MD 20855-2773

Re: Miconazole Nitrate Vaginal Cream 2% Abbreviated New Drug Application

Dear Dr. Ganley:

The L. Perrigo company is submitting for your review and approval, an ANDA for Miconazole Nitrate Vaginal Cream 2%. This ANDA is being filed pursuant to 505(j) of the Federal Food, Drug, Cosmetic Act. Perrigo's product is identical in strength, indications, active ingredient, route of administration and dosage form to RW Johnson's MONISTATR 7 miconazole nitrate vaginal cream.

MONISTAT^R 7 vaginal cream (N17450 002) is listed in the Fifteenth Edition of <u>Approved Drug Products with Therapeutic Equivalence Evaluations</u> as an OTC drug with no patent protection or market exclusivity.

Should you require additional information, please contact me directly at 616-673-7670 or the address on this letterhead.

Respectfully submitted,

Sacqueline M. Eaton

Regulatory Affairs Manager

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GENERIC DRUGS