	Roche
1	3-13-03-Final Draft submitted by HLR
2	MEDICATION GUIDE
3	Roferon <sup>®</sup> -A
4	(Interferon alfa-2a, recombinant)
5	Solution for Injection - Vials
6	

7 Before you start taking Roferon-A (ro-FER-on), please read this Medication Guide
8 carefully. Read this Medication Guide each time you refill your prescription in case new
9 information has been added. This information does not take the place of talking with your
10 healthcare provider.

## 11 What is the most important information I should know about Roferon-A?

Roferon is used to treat people with hepatitis C, hairy cell leukemia, AIDS-related 12 Kaposi's sarcoma, and Philadelphia chromosome positive chronic myelogenous leukemia 13 (CML). However, Roferon-A can cause some serious side effects that may cause death in 14 15 rare cases. Before starting Roferon-A, you should talk with your healthcare provider about the possible benefits and the possible side effects of treatment, to decide if 16 17 Roferon-A is right for you. While taking Roferon-A, you will need to see your healthcare 18 provider regularly for medical examinations and blood tests to make sure your treatment 19 is working and to check for side effects.

20 The most serious possible side effects of Roferon-A treatment include:

- 21 Mental health problems: Roferon-A may cause some patients to develop mood or 1 22 behavioral problems. Signs of these problems include irritability (getting easily 23 upset), depression (feeling low, feeling bad about yourself or feeling hopeless), and 24 anxiety. Some patients may have aggressive behavior and think about hurting others. 25 Some patients may develop thoughts about ending their lives (suicidal thoughts) and 26 may attempt to do so. A few patients have even ended their lives. Former drug addicts 27 may fall back into drug addiction or overdose. You must tell your healthcare provider if you are being treated for a mental illness or have a history of mental illness or if 28 you are or have ever been addicted to drugs or alcohol. Call your healthcare provider 29 immediately if you develop any of these problems while on Roferon-A treatment. 30
- 31 2. Heart problems: Roferon-A may cause some patients to experience high blood
  32 pressure, a fast heartbeat, chest pain, and very rarely a heart attack. Tell your
  33 healthcare provider if you have or have had any heart problems in the past.
- 34 3. Blood problems: Many patients taking Roferon-A have had a drop in the number of
  35 their white blood cells and their platelets. If the numbers of these blood cells are too
  36 low, you could be at risk for infections or bleeding.

- 37 Stop taking Roferon-A and call your healthcare provider immediately if you
- 38 develop any of these symptoms:
- **9 You become very depressed or think about suicide**
- 40 You have severe chest pain
- 41 You have trouble breathing
- 42 You have a change in your vision
- 43 You notice unusual bleeding or bruising
- 44 High fever
- 45 Severe stomach pain. If the pain is in the lower part of your stomach area it could mean that your bowels are inflamed (colitis)
- 47

For more information on possible side effects with Roferon-A therapy, please read the
section on "What are the possible side effects of Roferon-A?" in this Medication Guide.

## 50 What is Roferon-A?

51 Roferon-A is a treatment that is used for some people who are infected with the hepatitis C virus, hairy cell leukemia, AIDS-related Kaposi's sarcoma, and Philadelphia 52 53 chromosome positive chronic myelogenous leukemia (CML). Patients with hepatitis C have the virus that causes hepatitis in their blood and liver. Patients with hairy cell 54 55 leukemia produce abnormal white blood cells that travel to the spleen where they trap and destroy normal blood cells. In AIDS-related Kaposi's sarcoma, the virus affects the 56 immune system causing many patients to develop lesions on the skin, in the nose, mouth, 57 58 and sometimes in the lungs, bowels, and lymph nodes. In CML, your body produces too many of certain blood cells. Roferon-A works in these conditions by reducing the amount 59 of virus in the body, destroying cells that may be harmful to your body and keeping the 60 61 body from producing too many cells.

## 62 Who should not take Roferon-A?

- 63 Do not use Roferon-A if:
- You are pregnant or breast-feeding or are planning to become pregnant
- You are allergic to alpha interferons, *Escherichia coli*-derived products or any component of Roferon-A (see ingredients listed at the end of this Medication Guide)
- You have autoimmune hepatitis (hepatitis caused by your immune system attacking your liver)
- 69

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# 70 If you have or have had any of the following conditions or serious medical problems,

- 71 discuss them with your doctor before taking Roferon-A:
- History of or current severe mental illness (such as depression or anxiety)
- 73 Previous heart attack or heart problems
- 74 Sleep problems
- 75 High blood pressure
- Autoimmune disease (where the body's immune system attacks the body's own cells), such as vasculitis, psoriasis, systemic lupus erythematosus, rheumatoid arthritis
- 78 Kidney problems
- Blood disorders-Low blood counts or bleeding problems
- 80 You take a medicine called theophylline
- 81 Diabetes (high blood sugar)
- 82 Thyroid problems
- Liver problems, other than hepatitis C
- 84 Hepatitis B infection
- HIV infection (the virus that causes AIDS)
- Problems with your vision
- 87 Colitis
- Body organ transplant and are taking medicine that keeps your body from rejecting your transplant (suppresses your immune system)
- 90 Alcoholism
- 91 Drug abuse or addiction
- 92

93 If you have any doubts about your health condition or about taking Roferon-A, talk to94 your healthcare provider.

## 95 What should I avoid while taking Roferon-A?

- Avoid becoming pregnant while taking Roferon-A. Roferon-A may harm your
   unborn child or cause you to lose your baby (miscarry)
- 98 You should not breast-feed your baby while taking Roferon-A

## 99 How should I take Roferon-A?

- To get the most benefit from this medicine, it is important to take Roferon-A exactly asyour healthcare provider tells you.
- 102 Your healthcare provider will tell you how much medicine to take and how often to take
- 103 it. Once you start treatment with Roferon-A, do not switch to another brand of interferon
- 104 without talking to your doctor. Other interferons may not have the same effect on the
- 105 treatment of your disease. Switching brands will also require a change in your dose. Your
- 106 healthcare provider will tell you how long you need to use Roferon-A.

- 107 Over time, your healthcare provider may change your dose of Roferon-A. Do not change
- 108 your dose unless your doctor tells you to change it.
- 109 Roferon-A is supplied in vials as a ready-to-use solution and in prefilled syringes. This
- 110 Medication Guide describes how to use the vials. Whether you give yourself the injection
- 111 or another person gives the injection to you, it is important to follow the instructions in
- 112 this Medication Guide (see the section, "How do I inject Roferon-A?").
- 113 If you miss a dose of Roferon-A, take the missed dose as soon as possible during the 114 same day or the next day, then continue on your regular dosing schedule. If several days 115 go by after you miss a dose, check with your doctor about what to do. Do not double the 116 next dose or take more than one dose a day unless your doctor tells you to. Call your 117 doctor right away if you take more than your prescribed Roferon-A dose. Your doctor
- 118 may wish to examine you more closely and take blood for testing.
- 119 You must get regular blood tests to help your healthcare provider check how the 120 treatment is working and to check for side effects.
- 121 Tell your doctor if you are taking or planning to take other prescription or non-122 prescription medicines, including vitamins and mineral supplements and herbal 123 medicines.
- 124 What are the possible side effects of Roferon-A?
- 125 Possible, serious side effects include:
- Mental health problems including suicide, suicidal thoughts, heart problems,
   and blood problems: See "What is the most important information I should know
   about Roferon-A?"
- Other body organ problems: Some patients may experience lung problems (such as difficulty breathing or pneumonia) and vision problems
- New or worsening autoimmune disease: Some patients may develop an autoimmune disease (a disease where the body's own immune system begins to attack itself) while on Roferon-A therapy. These diseases can include vasculitis (an inflammation of your blood vessels), rheumatoid arthritis or lupus erythematosus, psoriasis or thyroid problems. In some patients who already have an autoimmune disease, the disease may worsen while on Roferon-A therapy
- 137
- 138 Common, but less serious, side effects include:
- Flu-like symptoms: Most patients who take Roferon-A have flu-like symptoms that usually lessen after the first few weeks of treatment. Flu-like symptoms may include unusual tiredness, fever, chills, muscle aches, and joint pain. Taking acetaminophen or ibuprofen before you take Roferon-A can help with these symptoms. You can also try taking Roferon-A at night. You may be able to sleep through the symptoms
- Extreme fatigue (tiredness): Many patients may become extremely tired while on
   Roferon-A therapy
- 146 Upset stomach: Nausea, taste changes, diarrhea, and loss of appetite occur

- 147 commonly
- Blood sugar problems: Some patients may develop a problem with the way their
   body controls their blood sugar and may develop diabetes
- Thyroid problems: Some patients may develop changes in their thyroid function.
   Symptoms of these changes may include feeling hot or cold all the time, trouble
   concentrating, changes in your skin (your skin may become very dry), and changes in
   your weight
- Skin reactions: Some patients may develop a rash, dry or itchy skin, and redness and swelling at the site of injection
- Sleep disturbances and headache: Trouble sleeping and headaches may also occur during Roferon-A therapy
- Hair thinning: Hair loss is not uncommon while using Roferon-A. This hair loss is temporary and hair growth should return after you stop taking Roferon-A
- 160

161 These are not all of the side effects of Roferon-A. Your doctor or pharmacist can give 162 you a more complete list.

163 Talk to your healthcare provider if you are worried about side effects or find them very164 bothersome.

## 165 How do I inject Roferon-A?

166 The instructions that follow will help you learn how to use Roferon-A vials, and prefilled syringes. Please read all of these directions before trying to take your medicine. It is 167 important to follow these directions carefully. Talk to your healthcare provider if you 168 169 have any concerns about how to use Roferon-A. Whether you are giving yourself an injection or if you are giving this injection to someone else, a healthcare provider must 170 teach you how to inject. If you are giving this injection to someone else, a healthcare 171 provider must teach you how to avoid needle-sticks. Being stuck by a used needle can 172 173 pass diseases on to you.

## 174 General advice about prescription medicines

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. If you have any concerns or questions about Roferon-A, contact your healthcare provider. Do not use Roferon-A for a condition or person other than that for which it is prescribed. If you want to know more about Roferon-A, your healthcare provider or pharmacist will be able to provide you with detailed information that is written for healthcare providers.

181 **Ingredients:** interferon alfa-2a recombinant, sodium chloride, polysorbate 80, benzyl 182 alcohol, and ammonium acetate.

This Medication Guide has been approved by the U.S. Food and Drug Administration.

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## APPENDIX: Use of Roferon-A Solution in Vials

185 186

187 Your doctor will tell you whether you will be injecting Roferon-A under the surface of 188 the skin (subcutaneous) yourself or if your caregiver will be giving you injections into 189 your muscle (intramuscular). The size of the syringe and needle you will use depends on 190 where you will be getting your injections.

191 Find a well-lit, clean, flat working surface like a table and remove a vial of Roferon-A

192 from the refrigerator. You should check the date on the vial and make sure that it has not

193 expired. Do not use a vial if the date on the label has passed.

- 1. Collect all the supplies you will need to give yourself or get an injection:
  - one vial of Roferon-A
- the correct sterile disposable syringe and needle (as directed by your doctor or healthcare provider)
  - two alcohol swabs
- 199 puncture-resistant disposable container
- 200

201 2 Check the vial of Roferon-A to see if it is clear or colorless to a light yellow in color
 and check the date on the vial to make sure it has not expired.

• Do not use Roferon-A if:

the medicine is cloudy

the medicine has particles floating in it

the medicine is any color besides clear or colorless to light yellow

it has passed the expiration date

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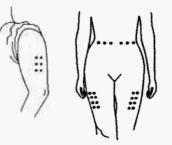
- 3 Gently warm the refrigerated medicine by slowly rolling the vial in the palms of your
  hands for about one minute.
- 4. Wash your hands with soap and warm water. This step is very important to helpprevent infection.

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- 5. Pick a site for the injection.
- A. For injections under the skin (subcutaneous) the following sites may be used
- 215 216

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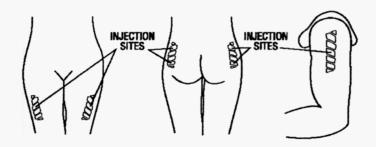
- abdomen, avoiding the navel and waistline area
  - If someone else is giving you an injection you can also use the outer surface of your upper arm



- You should choose a different spot each time you give or receive an injection
- 219 220
- B. For injections into the muscle (intramuscular) the following sites may be used:
- 222 223

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- If someone else is giving you an injection you can use the upper, outer quadrant of the buttocks and the upper outer arm
- If you are giving yourself the injection you can use the upper thigh



- 227 228
- Again, you should choose a different injection site each time you give or receive an injection
  - 6. Preparing the injection site.
- Clean the skin where the injection will be given with an alcohol swab and leave the swab on the site

## 7 Preparing your dose of Roferon-A:

A. Using your thumb, flip off the plastic top covering the top of vial. Clean the
 rubber stopper on the top of the vial with an alcohol swab



- B. Remove the syringe from the package
- C. Remove the cover from the needle. Do not use the syringe if the needle cover is
   not on the needle securely/
- D. Pull the syringe plunger back to the mark that corresponds to the dose of Roferon A prescribed by your doctor. This draws air into the syringe barrel



- E. Push the needle through the center of the stopper on the vial
- F. Slowly inject all the air from the syringe into the space above the solution. Do not inject air into the Roferon-A fluid



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- G. Keep needle in vial and turn both upside down
- H. Holding the vial and syringe straight up, while keeping the tip of the needle in the
  fluid, slowly pull the plunger back to the mark on syringe barrel ordered by your
  doctor
- I. To avoid air bubbles from forming in the syringe, make sure the needle tip always
   stays in the liquid. If air bubbles appear, gently tap the syringe barrel then slowly
   push the solution back into vial and withdraw the solution again

- J. Leave the needle in the vial and lay the vial and needle down on your clean working surface
  - K. Withdraw the needle from vial
- L. Hold syringe and needle straight up, check again for air bubbles. If there are
  bubbles, lightly tap the side of syringe with your thumb and finger to bring any air
  bubbles to the top.

M. Press plunger slightly to push the air out through the needle.

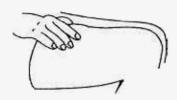
- 8. For injections under the skin (subcutaneous) follow the instructions below:
- 264 265

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- Remove the alcohol swab from the site you cleaned for the injection. Allow the site to dry for 10 seconds
  - Position the bevel of the needle so that it is (at point of needle) facing up



• Pinch an area of skin firmly between the thumb and forefinger



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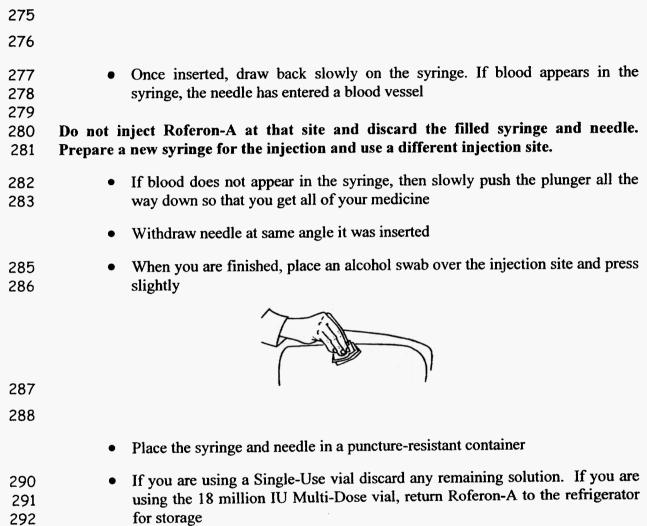
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• Hold the needle like a pencil or a dart, at a 45° to 90° degree angle to skin and in one quick motion insert the needle as far as it will go

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9. For injections into the muscle (intramuscular), follow the instructions below:

- With one hand, stretch the skin away from the injection site so it is tight
- 295 296
- Hold syringe in the other hand like a pencil, and insert the needle at a 90° angle with a quick dart-like thrust. You should feel some resistance



#### 297

Once inserted, release the stretched skin and slowly inject the medication by
 pushing the plunger down



# 300

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- Withdraw the needle at the same angle it was inserted
  - When you are finished, place an alcohol swab over the site and press lightly



- Apply light pressure over site
- Place the syringe and needle in a puncture-resistant container

- If you are using a Single-Use vial discard any remaining solution. If you are using the 18 million IU Multi-Dose vials return Roferon-A to the refrigerator for storage.
- 311 How should I dispose of materials used to inject Roferon-A?
  - Do not recap the needle

Place the entire syringe and needle in a puncture-resistant container. A home "Sharps Container" may be purchased at your pharmacy or you can use a hard plastic sontainer with a screw top or a coffee can with a plastic lid. You should talk to your healthcare provider about how to properly dispose of a full container of used syringes. There may be special state or local laws about disposing used syringes and needles, so please check with your physician, nurse or pharmacist for instructions. DO NOT throw the filled container in the household trash and DO NOT recycle

• The needle cover and alcohol swabs can be thrown in the regular trash. You should always keep your syringes and disposal container out of the reach of children

#### 322 How should I store Roferon-A?

323 Roferon-A must be stored in the refrigerator at a temperature of 36°F to 46°F (2°C to

- 8°C). Do not leave Roferon-A outside of the refrigerator for more than 24 hours. Do not
   freeze Roferon-A. Keeping Roferon-A at temperatures outside the recommended range
- 326 can destroy the medicine.

Do not shake Roferon-A. Shaking can destroy Roferon-A so that it will not work.

Protect Roferon-A from light during storage.

Keep this and all other medicines out of the reach of children.

 $R_x$  only

(Roche) Pharmaceuticals

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- 333 27898099
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- 335 Issued: March 2003
- 336 Printed in USA
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