hepcBC.bull BC CHAPTERS NEWS BULLETIN HEPATITIS C SOCIETY OF CANADA JAN 1998

HepC Q & A

HEP C TREATMENTS

COMING UP:

by Blair Thomson, DN, CMT, and Mishel Rees, MH, WT, RM, B.Div. Both are Integrative Therapists using nutritional, herbal and body work therapies. They are co-owner/operators of Quantum Life Energy Natural Farmacy & Clinic. Email: blairt <blairt@wimsey.com>

Question: Can protein powder be used instead of NAC (N-Acetyl Cysteine) and SAM (S-Adenylose Methionine), both of which are very expensive?

Answer: No. If you just want to provide ridding the body of all the body with the raw materials of the Unfortunately, it is becoming increasingly obvious various amino acids, sure, protein powder is that this goal is difficult, if not impossible. fine as would be any other protein food. Therefore, the medical world is choosing less However for a therapeutic dose of any satisfactory, but useful, goals, such as lowering the individual amino acid it would be viral count (and thus the risk of passing on the impossible to get enough from a protein disease), reducing liver inflammation, and slowing production in the body requires several the onset of cirrhosis and liver cancer. nutrient cofactors including B vitamins. Also NAC and SAM are both altered amino Interferon and Ribavirin have been tried, one acids neither of which are found in protein of which is iron reduction. Iron is necessary powders etc but have to be produced in the for almost all organisms to multiply. Patients body by the raw materials.

NAC which I would like to share with Hep produces excess concentrations of iron help CO-EDITORS American Journal of Natural Medicine, Michael T. Murray, N.D., cites research which questions the efficacy and possibly studied the role iron plays in viral hepatitis the safety of using NAC to increase for at least 15 years, by observing patients glutathione levels as it may actually increase oxidative damage. This actually happened in test results with six healthy volunteers at a dosage of 1.2 grams per day.

In research comparing NAC with vitamin C to increase glutathione levels, vitamin C was shown to be more effective & far cheaper than NAC. Dr. Murray notes, "Measurements of glutathione (GSH) levels indicated that 3 grams of vitamin C per day increased white blood cell GSH four-fold and plasma (blood) GSH levels eight fold. NAC increased white blood cell 3.5-fold and plasma two to five-fold. Based on these results, it was decided that vitamin C would

From the annals of this year's NIH Consensus Development Conference on Management of Hepatitis C interesting article, "Other Options for Treatment of Hepatitis C," by Herbert L. Bonkovsky, M.D.

This article stresses the need for more effective therapy, a need demonstrated by the continuing search for better treatments. The general concensus now is that present treatments are far from perfect, where the goal of treatment is seen as detectable virus. Aside from cysteine, NAC down the rate of progression, which would delay

Other methods of treatment other than with infections or inflammatory conditions There is some information regarding have low iron levels in their blood. The body In the July/ August 1996 the body to fight infection due to bacterial and fungal infections, and perhaps in viral infections, as well. Researchers have with hepatitis B. Those with high levels of iron in their blood had more of a chance of developing chronic infections than those with lower levels. Other reports associate stored iron in the liver with the development of scarring and liver cancer in cases of hepatitis B.

> Higher levels of iron in the blood correspond to a poorer response to IFN therapy, as well, and complete responders usually have lower levels than non- or partial-responders. Lack of evidence of iron storage in samples from portal tracts seems to correspond to a better response to IFN therapy.

Blood letting alone (phlebotomy), without

(Continued on page 5)

Victoria Chapter Meetings: Last Wednesday of each month 1 - 3 PM, and again at 7-9 PM, St. John the Divine Church Lounge,1611 Quadra St. (Entrance through the rear, marked Annex) NEXT MEETING: Jan. 28.

Penticton Chapter Meetings: Third Thursday of every month, 7-9 PM, Penticton Health Unit - Board rooms. NEXT MEETING: Jan. 15

Meetings: Last Saturday of Kelowna Chapter every month, 1-3 PM, Rose Avenue Education Room in Kelowna General Hospital. NEXT MEETING: Jan. 31

Nanaimo Chapter Meetings: Second Thursday of every month, 7 PM, Health Unit-Central Vancouver Island, 1665 Grant St. NEXT MEETING: Jan. 8.

Vancouver CLF Support Group: Next Meeting: Thurs., Jan. 8, 7:30-9:30 PM, Vancouver General Hospital's Heather Pavillion, Lecture Hall B. Facilitator: Yvonne Kwok, a nurse specializing in hepatitis.

Sunshine Coast Support Group- Meetings: First Thursday of each month, 7:30 PM, Coast Garibaldi Health Unit in Gibsons. NEXT MEETING: NOTE: Jan. 8. Contact Carol for more information: 886-4298 or email her at Carol <ryker@cheerful.com>

HOW TO REACH US:

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http://www.geocities.com/HotSprings/5670

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(Continued on page 4)

SUBSCRIPTION FORM Please fill out include a check made out to HeCSC - Victoria Chapter, Send to: Hepatitis C Society of Canada Victoria Chapter 1611 Quadra St. Victoria, BC V8W 2L5 or FAX to: (250) 479-5290 Name: Address: Prov. ___ PC_ Work(___)_ One Year Subscription \$10.00 Member of: Victoria Chapter_ Vancouver Chapter Okanagan Chapters_ "I cannot afford to subscribe at this time, but I would like to receive the newsletter. I am applying for a grant.".__ "I would like to make a donation so that others may receive the newsletter without charge"____

DISCLAIMER: HeCSS cannot endorse any physician, product or treatment. Any guests invited to our group to speak, do so to add to our information only. What they say should not necessarily be considered medical advice, unless they are medical doctors. The information you receive may help you make an informed decision. Please consult with your health practitioner before considering any therapy or therapy protocol. The opinions expressed in this newsletter are not necessarily those of the organization

(A limited number of newsletters will be available

free of charge at the meetings, as well.)

Victoria Chapter HeCSC acknowledges the personal donations, donations in kind and memorial donations received to date, and the following for discounts, donations of services, or equipment: Monk Office Supply. CFAX 1070 Radio, and Apple Canada.

The deadline for any contributions of hepc.bull is the 22nd of each month. Please contact: Joan Diemecke at Tel/FAX (250) 479-5290 or Darlene Morrow at FAX (604) 987-7396

1203 Plateau Drive, North Vancouver, BC, V7P 2J3

email:

pdiemecke@compuserve.com or

hepcbc@sprint.ca

The editors reserve the right to edit and cut articles in the interest of space.

ADVERTISING: The deadline for placing advertisements in the hepcBC.bull is the 15th of each month. Rates are as follows:

Newsletter Ads:

\$10 for 1/6th page, per issue \$100 for 1/6th page, 12 issues (in advance)

\$20 for 1/3rd page, per issue (vertical or horizontal)

\$200 for 1/6th page, 12 issues (in advance)

whole page: \$60 per issue

\$600 for 12 issues

1/2 page: \$30 per issue \$300 for 12 issues

MEMBERSHIP DESK

Reminder:- Any change of address. phone number or Postal Code, please let your phone contact (in Victoria) or your Chapter Secretary (B.C) know at vour earliest. It saves our meagre funds. Thanks.

HeCSC Victoria Tel. (250) 388-4311 xx204@freenet.victoria.bc.ca

JIM LODGE STEPS DOWN

Recently recovering from a bout (604) 681-4588. Jim joined our stepped down. group shortly after his wife died of of our steering committee, and eventually, co-chair of the Victoria Chapter. One of his projects has up the been setting membership data base on the computer. If that weren't enough, he has faithfully greeted those who attend our meetings each month, and overseen the labeling and mailing of our newsletter. He has been instrumental in obtaining many of our corporate donations, and done most of our banking. The coordination of our volunteers have also fallen onto his shoulders. invaluable, and we will miss him more than words can tell. mourning the passing of his wife, #545-1130 West Pender Street Jim has given life to our group. Vancouver, BC How we shall survive without him remains to be seen.

CANADIAN LIVER **FOUNDATION**

Spring For Daisies: Volunteers are needed immediately to sign up for the Spring for Daisies campaign. We still need people to help in both the public and corporate portions of the campaign. Volunteer training will take place on February 21 & 28. Please call the regional office at (604) 681-4588 for more info.

Casino Nights: Volunteers needed for Jan. 01 and March 09/98. The Casino event will take place at the Quality Inn, 725 SE Marine Drive, Vancouver. Different shift options are available and it would be great if we could have people interested sign up as soon as possible as all volunteers must be trained prior to the casino date. Interested individuals can call the regional office at

of pneumonia, Jim Lodge, Living With Liver Disease Programs: We Victoria's vice-chairperson, has are taking registration for the Living With Liver Disease Programs. Vancouver begins Jan. 26 at Vancouver General Hospital Heather Pavilion, Lecture Hall B (7pmhepatitis C. He became a member 9pm) and the Victoria program will commence Feb. 23 at Victoria General Hospital Lecture Hall (7pm-9pm). (604) 681-4588 or 1-800-856-7266 to register. These are free sessions and are available to anyone interested.

> Gala Fund-raiser: The Canadian Liver Foundation is hosting its first annual Gala Fund-Raising Weekend, featuring Joelle Rabu in Concert on March 28 and 29, 1998 at the Vancouver East Cultural Centre.

> Saturday, March 28: An Intimate Concert with Joelle Rabu. 10% of all ticket sales and sale of CD and tapes will be donated to the CLF. Tickets- \$20.00/\$18 seniors and students.

Sunday, March 29: CLF Gala Fund-Raising Evening with Joelle and the organization of our office includes reception and silent auction. Tickets - \$75.00/person Tickets available at In short, his labour has been all ticketmaster locations or by dialing (604) 280-4444 or <www.ticketmaster.ca >

> In Canadian Liver Foundation V6E 4A4

Tel: (604) 681-4588 Fax: (604) 681-6067 Toll Free: 1-800-856-7266

SQUEEKY'S CORNER

Me, Sex and the Other Guy

Recently there's been a lot of flack going round about sexual transmission of HCV and we ain't talking Roberta. Some people get so frightened when they find out they have the virus that they stop having relations with their partners, and, as a result, many wonderful marriages have come to an end in bitterness and tears. But, there has been a lot of talk recently on the HEPV-L list about sexual transmission, and several members have written in with their stories, stories which state that their hep was sexually transmitted. Not that I want to split hairs here, or anything like that—this is way too serious a subject to squeek about—but I think it's important to understand that by "sexual transmission" we may be talking about an activity that is larger than the sexual act. Or are we? Is HCV transmitted during the act of sexual congress, or can it be spread from partner partner through more "innocent" activities, such as kissing, shared coffee cups, a lick of somebody's fork? I don't know, I'm just asking. Most recent studies suggest that although the HCV virus can be found in bodily fluids, the form and quantity of the virus is such that it is highly unlikely that contagion be an issue. However, if this were the case (i.e., lateral transmission from bodily fluids) then the incidence of HCV in families would be much higher, as is the case with Hep B, where lateral transmission is a serious concern. Is HCV spread laterally? Should we have our children tested? All the studies available say no. And yet, the medical profession is still at a loss to explain the origins of many cases of HCV, publicly preferring to lay the blame on drugs and ethnic lifestyles.

Speaking of which, recently, it was brought to my attention that there are many HCV positive children in the Aboriginal communities here on Vancouver Island. How did they get their Hep? What is the mitigating factor? Does the medical community have an answer? I'm working on it, and as soon as I find out, I'll let you know. Meanwhile, here's some stuff hot off the press about why you shouldn't be worried about getting or spreading HCV sexually.

1. "Safer Sex Practice for Chronic HCV HCV. Thirty-one partners were exposed Carriers: Is It Necessary?"

authors to the First Australasian Conference became infected with HIV and 25 (80%) on Hepatitis C, held March 16-18, 1997, in contracted HCV infection. These findings Sydney, Australia, "The efficiency of sexual support the evidence of others that HCV is transmission of hepatitis C virus (HCV) is only rarely transmitted by an important issue for individuals with HCV intercourse in heterosexual relationships infection and the role of sexual transmission and that HIV is not a cofactor for HCV in the epidemiology of HCV infection transmission. continues to be debated. In particular, HCV-discordant couples established monogamous should be advised to use condoms is controversial. We have routinely offered testing of the current heterosexual partner to Sydney donors identified anti-HCV positive attending for follow-up since January 1994. As at September 1996, the partners of 40 such donors had been tested. Only one of the 40 partners tested anti-HCV positive. This partner had an independent established parenteral risk factor for HCV infection. The median duration of the couples sexual relationships was five years (range four 1. months to 42 years). Thirty-eight couples reported rarely or never using condoms in their sexual relationships; two couples reported using condoms for the majority but not all of their sexual relationships. Our times a week (which the patient pays for) findings support larger epidemiological and 1000-1200 mg of ribavirin orally twice studies in blood donors, multiply transfused a day (which is paid for by the drug patients and recipients of contaminated Rh company.) THIS STUDY WILL BE anti-D immunoglobulin which suggest that CLOSING SOON. heterosexual transmission of HCV extremely uncommon. We counsel couples in with Interferon in non-responders or established monogamous relationships that it relapsers. is probably unnecessary to modify their amantadine in the treatment of HCV. sexual practice, other than to consider using condoms during menstruation, anal 3. intercourse or when genital ulceration is present."

AUTHORS: A.R. Davis and A.M. Kowalik. Affiliations not provided.

SOURCE: ©Hepatitis Weekly, 9/29/97, p16, 1/2p

"Absence Of Hepatitis C Virus Transmission but Frequent Transmission Of HIV-1 from Sexual Contact with Doubly-Infected Individuals"

through infected blood and blood products, cost of the drug is paid for by the drug but evidence of other routes of transmission company and is **OPEN to naive patients** is less clearly understood. In a study only designed to examine immunodeficiency virus (HIV) transmission, 4. the prevalence of HCV has also been with Interferon: This trial will begin measured. Sixty-one couples were analysed, sometime in the new year and will look at 30 in which partners were at risk through low sexual contact alone, of whom 12 (40%) interferon. became infected with HIV and none with

sexually and additionally According to an abstract submitted by the intravenous drug use. Of these, 16 (52%)

> in Author: Jr Robertson, Muirhouse Med Grp, 1 Muirhouse Ave, Edinburgh Eh4 4pl, Midlothian relationships Source: Journal Of Infection, 1997 Sep; 35(2):163-166



FOUR HCV CLINICAL TRIALS IN BC

- and Interferon Ribavirin **Combination Therapy:** Non-responders or relapsers to interferon alone are being studied in a combination therapy trial using 3 million units of interferon injected three
- is 2. Amantadine Therapy in Combination This trial is looking THIS IS AN OPEN STUDY.
 - **PEG Interferon Trial:** Pegylated (PEG) Interferon is a long acting interferon that only requires a once a week injection. Patients are randomly assigned to one of two therapies:
 - a) PEG interferon injection once a week OR
- b) induction of Interferon at a high dose for one month followed by the standard dose of 3 million units three times a week for the duration of the trial. Hepatitis C virus (HCV) is transmitted This trial is for a period of one year and the previously (not human interferon).
 - Low Dose Maintenance Schedule dosage maintenance therapy of



This column is a response to requests for a personal classified section in our news bulletin. Here is how it works:

To place an ad: Write it up! Max. 50 words. Deadline is the 15th of each month and the ad will run for two months. We'd like a \$10 donation, if you can afford it. Send checks payable to HeCSC Victoria **Chapter**, and mail to R. Hicks, Box 263-Give us you name, tel. no., and address.

written response in a separate, sealed envelope with nothing on it but the number from the top left corner of the ad to which you are responding. Put that envelope inside a second one, along with your check for a donation of \$2, if you can afford it. Mail to the same address as above.

R. Hicks and/or HeCSC Disclaimer: cannot be held responsible for any interaction between parties brought about by this column.

Ad No. 5

SWM 7/7/47. Employed. Healthy. 5'8 1/2", 170 lbs. Considered attractive. Dreamworker. Spiritual. Tai Chi. Mindful/Awareness-Meditation. Vegetarian. Seven years sober and celibate. No assets. Poor but happy! Trained caregiver. I do not expect you to be like me. Be yourself. Reach out. Seeking Soulmate/Lover.

(Continued from page 1)

be given for one year at the 3 g per day dosage. At the end of a year glutathione levels remained elevated, the hematocrit increased from a baseline 25.4% to 32.6%, and the number of immature red blood 5. 1 ounce of unsweetened chocolate: cells (reticulocyte count) decreased from 11% to 4%. The results indicated that unsweetened cocoa powder. vitamin C decreased cellular damage in patients with hereditary glutathione deficiency and is more effective and less expensive than NAC."

"Vitamin C works along with antioxidant enzymes such as glutathione peroxidase, catalase, and superoxide dismutase. Vitamin C is also responsible for regenerating oxidized vitamin E in the body, thus potentiating the antioxidant amino acids contain ammonia which benefits of vitamin E. When we compare the 'super antioxidants' to vitamin C in terms of cost to benefit, vitamin C comes kidneys. Some experts believe that the out far superior."

DIET and the HOLIDAYS

Darlene Morrow, BSc

During the holidays our careful diets may be forgotten due to the festive social gatherings and overabundance of food that is prevalent. Certainly it is acceptable for us to loosen up a bit and indulge in 453 Head St., Victoria, BC V9A 5S1. foods that we wouldn't normally eat. But, before you find yourself feeling To respond to an ad: Place your the effects of that change in diet you might want to keep several things in mind. The most important things to watch are fat, protein and salt.

> Fats are digested with bile which is produced by the liver. The bile breaks apart the fat into smaller parts so that enzymes in the gut can facilitate its absorption. Monitoring your fat is particularly important for of you with steatosis (fatty those deposits in the liver). Some ways that you can limit fats in your own cooking and baking are as follows:

- 1. Use evaporated skim milk instead of heavy cream.
- 1/2 cup of oil or margarine (in baking): substitute 1/2 cup of applesauce OR 1/4 cup of applesauce + 1/4 cup of buttermilk OR 1/2 cup baby food prunes.
- 1/2 cup of oil (in sauces or marinades): substitute 1/2 cup of defatted chicken broth OR 1/2 cup unsweetened pineapple juice.
- 4. 1/2 cup margarine or butter (for icings): 1/2 cup marshmallow creme.
- substitute 3 tablespoons of

Proteins are necessary for tissue growth and repair. Approximately 1.0 to 1.5 gm. of protein per kilogram of body weight is recommended daily for regeneration of liver cells in noncirrhotic patients. The protein is broken down into amino acids. The must broken down by the liver into urea which is then excreted by the ammonia can lead to encephalopathy in susceptible patients with cirrhosis.

Encephalopathy, or impaired mental status, includes symptoms of disorientation, short term memory loss and confusion. While the exact cause is not fully understood, many people feel better when they restrict their dietary protein. However there is no consensus here. Some experts do not believe there is a link between dietary protein and encephalopathy while others believe in drastically reducing animal protein in order to help improve mental status. If you find that you are experiencing some of these symptoms, you may want to turn down that second helping of turkey.

Salt restriction in patients with ascites (abnormal accumulation of fluid in the abdomen) is also recommended. This condition can occur with cirrhosis. Each gram of sodium that you consume can result in the accumulation of 200 ml. of fluid. So watch out for any packaged or preprepared foods and leave the salt shaker on the table.

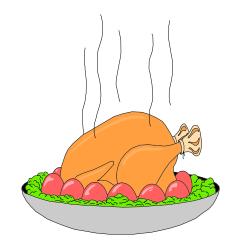
References:

Tribole, MS, RD

1. DIET AND YOUR LIVER From the American Liver Foundation

DIET AND HEPATITIS C by Melissa Palmer. MD source:

<http://www.liverdisease.com/diet.html> 3. Healthy Homestyle Cooking by Evelyn



BOOK REVIEWS

Both of the following books were to be found in a BC bookstore just before Christmas:

Living With Hepatitis C. Richard English and Dr. Graham Foster. Robinson Press, 168 pp., \$17.99 Can.

Richard English, a Hep C sufferer and a Master of Philosophy, has teamed together with a liver specialist to produce a guide geared to educating the patient about most aspects of this disease. Easy to understand, the book gives the basics and includes up-todate, and accurate, if not simplistic, information. English illustrates his points with personal stories, providing interesting, as well as informative Peering into the reading. psychological labyrinth of the mind of the patient dealing with the disease, he provides an excellent section on dayto-day coping.

On the downside, I found the book this book. lacking in its discussion of treatment options, in both the allopathic and alternative areas. The author is apparently neutral, and claims to support both types of treatment; however, t h e lack neither Amantadine nor Thymosin was intentions.

Other topics the author deals with include an explanation of the disease, aerobics 3 times a week. tests, and avoiding the spread of Hep C. He also gives us a straight-forward description of end-stage liver disease and transplants. Compared to Peppermint Patti's FAQ, the book is much shorter, but also less informative.

Anne Animas

Hepatitis C: A Personal guide to Good Health. Beth Ann Petro Roybal. Ulysses Press, 152 pp., \$19.95 Can.

You know gals, I was never one to be a party pooper. And hey, I got hep too so I know how it feels. But this that, afterall, HCV isn't that seriousbook makes me feel fat. Too sweet yur gonna die from bubkas before the

and low on nutritional value if you know what I mean.

Sure, if you just got hep, you don't have a computer and can't get a hold of Peppermint Patti's FAQ, or you live in Timbuctoo—or wherever—and never met another hepper FTF or stuff like that, then this book is a good place to start. Don't get me wrong. I like it. But it's better off as an article in Good Housekeeping than a book. It's like when we were 13 and wanted to make a good impression: way too much to lower viral levels, as well. padding.

about the book or you'll just think I'm bitching cuz I didn't write one, or maybe cuz I don't have 4 names that sound like more like "retro-toyball". Sheesh! Get a life.

Seriously though: old Retro does and has a really good glossary at the back. So if you don't know much or anything you'll get quite a bit out of

What really irks me though is when she says things like: "If the liver completely fails to function ... transplantation may be an option to consider" (26).MAY BE AN Is breathing out an state of liver inflammation. OPTION!!! comprehensiveness—i.e., I found that "option" after breathing in? Is "death" an "option" {smouldering anger--ed.}. mentioned—leads me to question his Or, like when she recommends an exercise program for heppers and suggests a minimum of 30 minutes of HELLO??? Like, how many heppers do you know? Like, sometimes I can't other hand, thymosin alpha-I, given together even get out of bed, lady-nor can LOTS of heppers I know that I met on the HEPV-L list and on email, etc.

> So: if you think that HCV is a in a stroller, then this is the book for investigation at the present time. you. But nobody should really get mad at Ms. Toyball: she's just passing along the misinformation she got from the NIH consensus (Big Sister in the US of A) who would have us believe

dragon gets you. And since the NIH can't find a cure (maybe because they spend less than nothing on research) the focus is now on "management," which, if you think about it, is really convenient. This way, if you die from the stuff, well, I guess it was only an "option."

Sue Denham

Continued from page 1)

IFN, leads to improved ALT levels in perhaps 50% of subjects, and seems to lead

This article also discussed Antioxidant Anyways, I better tell you something and anti-inflammatory agents. Among them was N-acetyl cysteine (NAC). In chronic Hep C, as well as in other liver diseases, oxidative stress increases while plasma and liver GSH levels decrease. NAC alone doesn't seem to have much effect, but when combined with IFN, it seems to improve the response. Vitamin E seems to help avoid the tell you about the liver and viruses and development of fibrosis, as do aspirin, other treatments and tests and procedures NSAIDS, pentoxyfylline, and colchicine. (Ed. note: beware of bleeding disorders associated with aspirin, etc.) treatments, such as Chinese remedies and herbs, seem to improve blood tests, but it sn't known yet whether this indicates improvement in the progression rate of the disease, as well.

> Supplemental (tauro-) ursodeoxycholic acid has improved ALT levels, both alone and combined with IFN. These bile salts seem to improve the

Substances that effect the immune system, as granulocyte/monocyte colony stimulating factor (GM- CSF) have not shown much promise. Not only are they expensive and not tolerated well, but they seem to have little effect except to raise neutrophil levels in patients who have severe neutropenia during IFN treatment. On the with IFN, produces very favourable results when comparing ALT levels in trial patients.

Amantadine and isoprinosine are being nvestigated, as well. Amantadine showed promise, and more tests are being done, but recreational disease, sort of like going the isoprinosine didn't. HCV protease and for a walk with your dog and your kids RNA polymerase inhibitors are also under

> Dr. Bonkovsky believes that several therapies, other than IFN and ribavirin, have on Hep C. Combination good effects treatments will probably be more effective than just one treatment alone. We urgently need more clinical trials.

BIOPSIES: A COMPARISON

people in my support group and from those and gone straight home. They had me wait on the internet. They have included a man outside the ultrasound room, lying on my whose bile duct was perforated and a right side, for an hour, though, just to be woman whose blood covered the room. safe. I am still amazed at how smoothly They also include people who engaged in everything went, and I will not be so afraid all normal activities within a few hours after if I have to have another biopsy. I was the procedure.

of 1995, took place in a Victoria hospital. hepper" came through with a chauffeur). My local gastroenterologist recommended the physician as being the best liver biopsy are that most biopsies are probably person in town. My doctor told me to expect relatively painless. If you can, get support to stay overnight, and I did. I had blood from your friends in your support systems tests done early in the morning and took up who have gone through the procedure. I temporary residence in a private room, found it really helps. It may also be Eventually the nurse wheeled me off to meet beneficial to go to a centre where they my fate. I requested, and was refused, any perform biopsies often. sort of medication to ease either pain or anxiety. The nurses, who were very caring, did cover me up with a heated blanket to stop my shivering, and one held my hand during the biopsy. The doctor told me he would take 3 specimens. The first was painless—after the initial freezing procedure, which was easy to endure—and I was remarking on that fact when he took the second specimen. Perhaps it was because I wasn't holding my breath that I experienced severe pain across my abdomen and in my right shoulder. The doctor immediately checked the ultrasound machine for any complications and decided to forgo the third sample. I had a big drop in my blood pressure and it hurt me to breathe or move for a couple of days because of the pain, which I could control with Tylenol. The hospital released me the following morning.

I was not overjoyed to learn that I would have to endure yet another biopsy at the end of my Interferon/Ribavirin trial.

The time arrived this last December 15th. I decided to have the biopsy done over in Vancouver. At least that way, I wouldn't have to wait months for it. I asked to be pre-medicated, and the doctor told me to take 1 mg. of Ativan one hour before. I rambled happily into the hospital on the arm of a fellow Hep C-er. I was able to find my way to the ultrasound department, where they issued me a gown and escorted mewalking—into the room. Dr. Yee was very nonchalant and chatty, and his air was very reassuring. The nurse didn't hold my hand, though. The doctor said he only needed one sample, performed the freezing, and the

whole thing was over very quickly. The only pain I felt was during the freezing, which is similar to the freezing done at my dentist's office. I had no shoulder pain, or any other pain after the procedure. I felt I have heard many biopsy stories from as if I could have walked out of the room able to drive myself back to Victoria the My first biopsy, performed in December next day (but I didn't because "rent-a-

I guess the points I would like to make

Joan Diemecke



Editors' note:

Leslie could not contribute to the newsletter this month, due to an accident to a family member. She did send us the following news:

The article "Who Should Receive Compensation" in last month's hepcBC.bull was not written by Leslie. It was submitted by a HeCSC member from Saskatchewan, who wishes to remain anonymous.

IN CASE YOU'RE INTERESTED: There will be a Health Minister's Conference on Compensation on January 29th and 30th in Vancouver, B.C. Leslie will be attending representing transfused patients.

ADVOCACY ANNOUNCEMENT

CLASS ACTION SUITS:

BRITISH COLUMBIA

Camp Church and Associates Sharon Matthews / Kim Graham 4th Floor, Randall Building Vancouver, B.C. V6B 1Z5 1-800-689-2322

Lemer Kambas Bruce Lemer Suite 1550.625 Howe Street Vancouver, B.C. V6C 2T6 (604) 669-4004

Before 1986 and after 1990 Klein Lyons David A Klein 805 West Broadway, Suite 500 Vancouver, B.C. V5Z 1K1 (604)874-7171 (604)874-7180 (FAX)

Dempster, Dermody, Riley and Buntain William Dermody 4 Hughson Street South, 2nd Floor Hamilton, Ontario L8N 3Z1 (905) 572-6688

The toll free number to get you in touch with the Hepatitis C Counsel is 1-(800)-229-LEAD (5323). It may not be working yet so please be patient.

TRACEBACK PROCEDURES:

This information is for anyone who has received blood transfusions in Canada, if they wish to find out if their donors were Hep C positive.

TRACEBACK INQUIRIES

Dr. Lisa Jeppesen, Dr. P Doyle, or Glenda The Canadian Red Cross Society 4750 Oak Street Vancouver, BC, V6H 2N9 1-888-332-5663 (local 207)

COMBINATION THYMOSIN ALPHA(1) AND LYMPHOBLASTOID INTERFERON TREATMENT IN CHRONIC HEPATITIS C

Background-Monotherapy for chronic hepatitis C using interferon (IFN) results in a very small proportion of patients exhibiting a sustained response. Clinical trials assessing the benefit of combination drug therapy may provide evidence of improved treatment response over that seen with single drug treatment.

Aim-To assess the response in patients with chronic hepatitis C to one year of combination treatment: thymosin alpha(1) (T alpha(1)), 1 mg twice weekly, and lymphoblastoid (L)-IFN, 3 MU thrice weekly.

Patients and Methods-Fifteen patients with serum HCV RNA positive chronic hepatitis C were studied. Eleven patients were treatment naive and four had failed previous standard IFN therapy. Thirteen patients were HCV RNA serotype 1b. All patients were given combination T alpha(1) and L-IFN therapy for one year with a six month follow up period.

Results-Six months after initiation of treatment seven patients (47%) were sera HCV RNA negative and at completion of the one year treatment 11 (73%), including two who had failed

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DAVE'S COLUMN

THE WHY AND HOW OF **BEING AN OPTIMIST**

Let's look at the dictionary definition of the word optimism.

"Optimism: The inclination to take a hopeful view; the tendency to think that all will be for the best; the doctrine that this world is the best of all possible worlds; sanguine temperament."

"Sanguine: Cheerful, hopeful, confident, always anticipating the best."

We are not going to change our outlook on and there can't be a more optimistic life by searching for it externally. We have endeavour than striving for a peaceful to want to change our attitude towards life mind. and then find a way to actually do it. That's why using drugs or alcohol or engaging in to show examples of what being an other types of self-indulgent behaviour will optimist means to me, so I'm not going to ultimately not effect a permanent positive repeat myself here. I would, however, like change in our lives. Let's ask ourselves to say in closing that there have been times some basic questions: Is the glass half full or half empty? Is the day partly sunny or being an optimist, but I've never given up. partly cloudy? Our answer will go a long Almost, but never quite I always remember way in determining whether or not we're a that it is the journey towards understanding basic optimist or a raging pessimist.

There is absolutely no question that how and what we think has a profound effect on our health. I'm not a psychologist or a medical expert, so I cannot explain all the chemical reactions that occur when we use positive or negative phrases to describe an object or situation. If we see the glass as half full, the implication is positive, and we cannot help but derive benefit from viewing the glass of water this way. Now this example may sound simplistic, but sometimes the simplest examples are, quite simply, the best. The power of the mind is underestimated in these times of complete dependence virtually We need to have more technology. confidence in our own thinking, especially those of us who suffer from a chronic illness such as hepatitis C. We need all the help we can get, and who better to turn to for help but our own selves, and our own minds. Let's tell ourselves every day that this is just a little bug and we're not going to let some little bug ruin our lives, even though we feel tired and achy and cranky all the time.

We need to look for the positive in everything that happens, and, by doing so, we will go a long way towards lessening the

impact of this terrible disease. We need to use words like love, not hate, and learn how to live in love. We need to develop a spiritual outlook on life even if it just practising some means commandments and not specifically any religion. If we smile, there's a good chance the world will smile back at us, and this can only be a good thing. Many of us find 9:94(25):13909-13914 some kind of perverted satisfaction out of railing against the world in all its decadence. Watching the news and reading the newspapers keeps informed, but at best gives us only a skewed worldview and at worst, keeps us in a state of...well...dis-ease.

Finally, meditation will help to turn that negative inner monologue down to a dull We can only be an optimist if we want to. roar and bring peace to a restless mind,

> In previous newsletters I have attempted when I've felt absolutely the furthest from that counts, and not the destination.

Does hepatitis C affect women differently?

Hormonal effects of hepatitis C can involve menstrual irregularities, particularly if you are experiencing significant hepatitis C symptoms. It is important that your general health is checked as well as your hepatitis C monitored.

Birth control: If you are experiencing significant hepatitis C symptoms, using the oestrogen-based contraceptive pill may be inadvisable. In these cases, the progesterone-only pill or Depo-Provera may be preferable. In any case, you should consult a woman's health practitioner.

Hormone Replacement Therapy: If you have severe hepatitis C symptoms you may need to discuss with your doctor or specialist whether hormones should be used for menopausal symptoms. If this is the case, external vaginal creams and skin patches are probably better than pills.

http://www.span.com.au/hepatitis_c/info.html#vir

How E. Coli Can Affect HCV Cloning

basic From the article: "How Escherichia coli can bias the results of molecular cloning: Preferential selection of defective genomes of hepatitis C virus during the cloning procedure." Forns X, Bukh J, Purcell RH, Emerson SU, Proc Natl Acad Sci, USA, 1997 Dec

> The HCV was cloned and attached to the bacterium, E. Coli. This altered product was then used to infect a chimpanzee which in turn got HCV. This result initially caused a lot of excitement because until this time there was no effective animal model with which to study

> The original studies assumed that the clones were representative of the entire virus population. However this study found that there was a strong cloning selection for defective genomes and that most clones generated initially were incapable of expressing the HCV proteins. In fact a random look at the clones showed that only 8% were fully functional when compared to human HCV.

> Further alterations were necessary to increase the number of functional clones. But nonrandom selection of clones during the cloning procedure can produce a false spectrum of genomic diversity. It can also be an impediment to the construction of infectious viral clones.

> What this really means to us is that the reliability of the animal model is itself in question. Any therapies that might work in the animal model may, nevertheless, not have the same effect in humans because of slight genetic modifications. More work needs to be done in this area before it can be said that we have a good working model.

HepC BC

http://www.geocities.com/HotSprings/5670 Email: hepcbc@iforward.com Education and Support for Hepatitis C including Canadian Information.

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previous standard IFN treatment, had negative serum HCV RNA. Six months after treatment, six patients (40%), including five with HCV type 1b, showed a sustained response characterised by a negative serum HCV RNA.

Conclusions-The results of this open label trial suggest that there may be a potential benefit to combining an immune modulator (T alpha(1)) with an antiviral (IFN) in the treatment of chronic hepatitis C. Verification of the observations in this study require completion of a randomised controlled study.

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Hepatitis C and Alcohol

Eugene R. Schiff, M.D. NIH Consensus Development Conference on Management of Hepatitis C

Introduction

the spectrum of hepatobiliary disorders that focal necrosis. and Dortal inflammation. may afflict the nonalcoholic patient and, in some cases, may be predisposed to liver Effect of Abstinence on Alcoholic Patients The period from transfusion to the epidemiologic, or metabolic risk factors.

Prevalence of Anti-HCV Markers

the population at large (10 percent vs. 1.4 decrease with abstinence. percent), but is even higher in those with liver disease (30 percent). Most of those with liver Epidemiology of Hepatitis C Among hepatitis C who remained abstinent during disease have detectable HCV RNA which may Alcoholic Patients also be present in some anti-HCV(-) patients. The epidemiology of hepatitis C among significantly lower rate of HCV RNA aminotransferase (ALT) levels.

Injury

positivity (RIBA+) correlated positively parenteral transmission. and significantly with cirrhosis, cellular unrest, periportal inflammation, and Effect of Alcohol on HCV Replication piecemeal necrosis, in contrast to anti-HBc, A critical question is whether or not alcohol viral replication. The progression of the

RNA determinations among 80 alcoholic increased HCV replication. Clinical patients with liver disease. Patients with evidence of hepatic activity and viral cirrhosis and HCV RNA had higher ALT levels is significantly greater in those activity than comparable patients without consuming greater than 10g of alcohol per HCV RNA. The HCV RNA(+) patients had day. higher histologic activity indices (Knodell) than those without detectable HCV RNA. Effect of Alcohol on Progression of The presence of HCV RNA conferred a Chronic Viral C Hepatitis to Cirrhosis more severe degree of periportal and and Hepatocellular Carcinoma The alcoholic patient is no less subject to bridging necrosis, intralobular degeneration, There is a more rapid development of

injury because of specific socioeconomic, with Histologic Evidence of Chronic diagnosis of cirrhosis is shorter in the Hepatitis

histologic evidence of chronic hepatitis, in alcoholic cirrhotics is 8.3 times higher Multiple studies have clearly demonstrated abstinence was not followed by resolution of in the HCV(+) patients than HCV(-) a high prevalence of anti-HCV among aminotransferase elevation, which has been patients, and the prevalence of anti-HCV alcoholic patients with liver disease. observed in both anti-HCV(+) HCV RNA(-) among alcoholics with HCC is 50-70 Testing with supplemental assays (e.g., and anti-HCV(-), HBsAg(-) alcoholic percent. Therefore, alcohol may modify recombinant immunoblot assay [RIBA]) patients with similar histologic features. This the replication of HCV as well as the confirmed that 8~5 percent of alcoholic suggests that chronic hepatitis C infection oncogenicity of HCV in hepatocellular patients with liver disease have anti-HCV perpetuates the liver damage in these carcinoma. (RIBA+). The prevalence of anti-HCV is alcoholic patients who have abstained. sevenfold higher among alcoholics than in Nevertheless, serum HCV RNA levels will Interferon Therapy in Alcoholic Patients

Anti-HCV(+) (RIBA+) patients are likely to alcoholic patients with bonafide viral C clearance in those who consumed >70g/ have HCV RNA detected, which is indicative of infection has not been definitively day of ethanol as compared to <70g/day active viral infection, usually associated with characterized. Intravenous drug abuse drinkers or nondrinkers. A similar some degree of necroinflammatory changes, with (IVDA) is the most common risk factor. Yet experience noted zero HCV RNA or without fibrosis, regardless of alanine there has not been a good explanation for the clearance in those consuming >70g/day up disproportionately high prevalence of HCV to the time of interferon therapy. among alcoholic patients with liver disease HCV Correlation With Severity of Liver without a history of IVDA. Caldwell et al. Conclusion found the prevalence of anti-HCV similar The most common type of nonalcoholic The prevalence of anti-HCV(RIBA+) among patients with alcoholic liver disease liver disease seen in alcoholic patients is correlates with the severity of liver injury who had high risk factors as compared to chronic viral hepatitis C. Evidence seen in alcoholic patients. Anti-HCV those without identifiable modes of accumulated thus far supports the concept

which did not correlate with any of these and hepatitis C infection are synergistic in a liver disease is more rapid and the risk for histologic features, in a large Veterans combined liver injury. In some patients, the development of hepatocellular Administration (VA) study. In a study of there are both histologic features of carcinoma, once cirrhosis has developed, 144 alcoholic patients, a prevalence of 20 alcoholic liver injury and chronic viral is high. It remains to be proven whether or percent anti-HCV positivity in alcoholic hepatitis, but in most studies the not successful antiviral therapy will fibrosteatosis, 21.4 percent in alcoholic predominant pattern is chronic hepatitis. change the natural history and improve the hepatitis, and 42.6 percent in alcoholic Alcohol may enhance the replication of prognosis in such patients who abstain. cirrhosis, as compared to 2.2 percent in hepatitis C and produce a more severe injury Regardless, part of the mystery of why alcoholic patients without liver disease, independent of the direct alcohol-induced some alcoholics develop liver disease was noted. Histologic features, with the toxic injury. There is a correlation between while most do not can be explained by the exception of sinusoidal cellularity, were HCV RNA levels and amount of alcohol presence of chronic viral C hepatitis. comparable in alcoholic patients with and consumed. Alcoholic patients with HCV without anti-HCV. Nishiguchi et al. infection have higher hepatic iron Ed. note: References upon request. Call performed both immunoblot and HCV concentrations, which may be germane to Joan Diemecke (250) 479-5290

cirrhosis and hepatocellular carcinoma in the alcoholic with chronic HCV infection. heavy drinker. The risk for In HCV RNA(+) alcoholic patients with development of hepatocellular carcinoma

with Chronic Hepatitis C

Among alcoholic patients with chronic therapy with interferon, there was a

that superimposed hepatitis C infection confers a more severe liver injury in alcoholic patients, possibly by enhancing