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TREATMENT WITH PEG-INTERFERON ALFA-2B (PEG-IFN) PLUS RIBAVIRIN COMPARED TO INTERFERON ALFA-2B (INF 2B) PLUS RIBAVIRIN ON SUBJECTS WITH CHRONIC HEPATITIS C IN-FECTED WITH HCV GENOTYPE 4. Gamal Esmat, A M Abouzied, Fatma Abdel-Aziz, M K Mohamed, Mohamed Abdel-Hamid, M S El Raziky, S A Ismail, K R Zalata, N N Mikhail, Tropical Medicine Institute, Cairo, Egypt; Alan Fix, Thomas Strickland, University of Maryland, Baltimore, MD; Maria H Sjogren, Walter Reed Army Medical Center, Washington, DC

Egypt has a prevalence rate of infection with hepatitis C that varies between 9% and 24%; approximately 90% is genotype 4. There are limited data for small numbers of patients on the effect of interferon therapy on HCV genotype 4-chronic hepatitis (CHC) subjects. The objective of this study is to assess the antiviral response of Egyptian subjects with CHC to combined therapy of PEG-INF plus ribavirin or IFN alfa2-b plus ribavirin. A total of 172 previously untreated CHC subjects have been enrolled in the study; 138 (80%) are in fected with HCV genotype 4. Patients were randomized to receive PEG-IFN 100  $\mu$ g/week plus ribavirin 800-1000 mg based on body weight (< 70kg or > 70 kg) or 3 MU/TIW IFN alfa-2b plus ribavirin (similar dose). If, at 24 weeks, HCV RNA is undetectable treatment is continued for 48 weeks; otherwise the medications are stopped. Antiviral response is defined as undetectable HCV RNA, tested by qualitative nested RT-PCR. Both randomized groups are similar in baseline characteristics: mean age is 39.3 years; 132 are male (77%); mean body mass index is 27.9 kg/m2; 15% had high viral load; mean liver inflammatory score was 7/18 and fibrosis stage 2/6. Currently, 116 patients have completed 12 weeks, and 67 of them completed 24 weeks of therapy. At 12 weeks, HCV RNA was undetectable in 42/59 (71%) of the PEG-IFN group and in 37/57(65%) in the IFN alfa-2b group. At 24 weeks, HCV RNA was undetectable in 20/30 subjects (66%) in the PEG-IFN group and 22/37(59%) in the IFN alfa-2b group. In this ongoing trial, both PEG-IFN and IFN alfa2-b in combination with ribavirin appear to be effective in treating chronic hepatitis patients with HCV genotype 4. The preliminary results are encouraging, and antiviral therapy of HCV genotype 4-infected subjects appears to be warranted.

## 805

PROSPECTIVE EVALUATION OF EARLY VIROLOGICAL RESPONSE AS-SOCIATED WITH PEGINTERFERON ALFA-2A (40KD) (PEGASYS\*) AND RIBAVIRIN FROM A PHASE IV, RANDOMIZED STUDY EXAMIN-ING THE EFFECTS OF TREATMENT DURATION IN HEPATITIS C PA-TIENTS INFECTED WITH GENOTYPE 1. C E Brandao, Graffèe e Guinle Hospital, Gaffrée, Brazil; R Perez-Gomez, Civil Hospital of Guadalajara, Guadalajara, Mexico; M G Pessoa, Emilio Ribas Infectious Disease Hospital, Sao Paolo, Brazil; M A Olivera-Martinez, National Institute of Medical Sciences and Nutrition, Mexico City, Mexico; C Caramori, UNESP-Botucatu, Botucatu, Brazil; C V Bazan-Perez, Tijuana General Hospital, Tijuana, Mexico; M Patelli, PUCAMP, Sao Paolo, Brazil; R Torres-lbarra, Infectious Disease Hospital, Guadalajara, Mexico; A Barone, University of Sao Paulo, Sao Paolo, Brazil; M Dehesa-Violante, National Medical Centre, Mexico City, Mexico; F Carrilho, University of Sao Paulo, Sao Paolo, Mexico; R Vivar, Roche Mexico, Mexico City, Mexico; F Tatsch, Hoffmann-La Roche Ltd, Sao Paolo, Brazil

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Background: Analyses of data from a large phase III study have shown that combination therapy with peginterferon alfa-2a (40KD) and ribavirin (RBV) results in a significant improvement in sustained virological response (SVR) compared with the combination of standard interferon and ribavirin. This study further showed that early virological response (EVR), defined as loss of serum HCV RNA of 2-log<sub>10</sub> decrease from baseline HCV RNA by week 12, was a strong predictor of SVR (86% of patients achieved EVR, with 65% going on to SVR). Importantly, 80% adherence to study medicanon in EVR patients further improved SVR to 75%. (I ried MW et al. Gastroenterology 2001-120 (5 suppl 1):A55).

Objective: To prospectively evaluate early virological response in an ongoing, randomized, phase IV study comparing the elluscy and safety of two treatment dutations with peginterferon affa-2a (40KD) and lawyin in patients infected with genotype 1.

Methods: A total of 220 naive patients with histologically proven hepatitis C, who are HCV RNA positive and lawe shormal ALT will be randomized to receive peginterferon alfa-2a (40KD) 180 µg once weekly and inhavitin (RIV) 300 mg daily for either 24 or 48 weeks. Patients with genotypes 2 and 3 will be treated in an observation arm for 24 weeks. All patients will be followed for an additional 24-week treatment-free period. Efficacy assessments consist of ICV RNA (CORAS AMPILCOR® HCV Test, v2.0, sensitivity of 50 IVmL and AMPILCOR MONITOR® Test, v2.0, sensitivity 600 IVmL) at weeks 4, 12, 24, 36 ed. 460 fthe treatment period and at weeks 12 and 24 of the treatment-free period. Safety assessments consist of clinical and laboratory evaluations.

Results: To date, 176 patients have been randomized and 115 have completed 12 weeks of treatment. The baseline characteristics of the patients were as follows: 66% male, 58% Caucasian, mean age of 41 years and mean body weight of 76 kg. Vtral load was >0.8 X 106 IU/mL in 57% of the patien

	EVR* (Week 12) % (n)	Patients With EVR That Have Negative HCV RNA (Week 12) % (n)
Genotype 1 (n=67)	72% (48)	64% (31)
Genotype 2/3	94% (45)	95% (43)
All Patients (n=115)	81% (93)	80% (74)

<sup>\*2-</sup>log<sub>10</sub> decrease in HCV RNA or HCV RNA negative

## 804

OPTIMIZED VIROLOGICAL RESPONSE IN GENOTYPE 4 CHRONIC HEPATITIS C PATIENTS TREATED WITH PEGINTERFERON ALFA-2A (40KD) (PEGASYS®) IN COMBINATION WITH RIBAVIRIN (RBV). Moises Diago, General Universitario, Valencia, NJ, Spain; Stephanos J Hadziyan-nis, Henry Dunant Hospital, Athens, Greece; Henry Bodenheimer Jr, Beth Israel Medical Center, New York, NY, Tarek Hassanein, University of California, San Diego, CA; Sonia Uchman, Attleboro Gastroenterology, Attleboro, MA; Patrick Marcellin, Hopital Beaujon, Clichy, France; Giuliano Ramadori, Georg-August Universität, Göttingen, Germany; Jean Delwaide, Domeine Universitaire Du Sart Tilman, Liège, Belgium; Farhad Sedarati, Hoffmann-La Roche Inc, Nutley, NJ

Background: Patients with chronic hepatitis C (CHC) infected with HCV genotype 4 have traditionally been described as 'difficult-to-treat'. Recently, we showed that the poor sustained virological response (SVR) of these patients to therapy with standard interferon (SVR)-5%; Zylberberg let al. Ann Intern Med. 2000;135:845-846) can be overcome by treatment with peginterion alla-2a (40KD) alone (SVR 45%; Sherman M et al. Ann Intern Med. 2001;135:927-928) or in combination with RBV (SVR 77%; Rodes J et al. 8th International Sympsoium on Hepatitis C and Related Viruses 2001)

(40KD) alone (SVR 45%; Sherman M et al. Ann Intern Med. 2001;135:927-928) or in combination with RBV (SVR 77%; Rodes J et al. 8th International Sympsoium on Hepatitis C and Related Viruses 2001)

Objectives: To study the efficacy and safety of 24 or 48 weeks of treatment with peginterferon alfa-2a (40KD) combined with an 800 or 1000 1200 mg daily dose of ribavirin (RBV) and to determine an optimal treatment regimen in CHC patients infected with genotype 4.

Methods: A total of 49 CHLC patients infected with HCV genotype 4 identified in 2 plasse III studies (NV13801 and NV15942) were included in these analyses. Patients in the NV15801 trial (n = 13) were treated with peginterferon alfa-2a (40KD) 180 μg sc qw plus RBV 1000-1200 mg qd for 48 weeks. Patients in NV15904 trial (n = 36) were treated in one of 4 groups: peginterferon alfa-2a (40KD) 180 μg sc qw plus RBV 800 mg qd or RBV 1000-1200 mg qd for 24 weeks or 48 weeks based on body weight (-75 kg or -75 kg). Efficacy assessments consisted of HCV RNA (undetectable HCV RNA using COBAS AMPLICOR® HCV Test, v2.0, lower limit of sensitivity 50 tU/mL) and serum Al. T assessments (reduction below the upper limit of normal range) at the end of a 24-week positreatment follow-tup period Safety was assessed by evaluation of adverse events and laboratory tests.

Results: The majority of patients were from Europe (n=34) and the United States (n=13). Patients were predominantly male (69%) with baseline viral load ranging from 0.05 to 8.18 million copies/mL. (13 patients (26%) had a viral load > 2 million copies/mL. Twelve patients (24%) had citrhosis. Among patients treated with peginterferon alfa-2a (40KD) plus 1000-1200 mg RBV for 48 weeks in both studies. 19 (79%) achieved an SVR. Patients treated with RBV 800 mg for 24 weeks. The majority of patients who normalization of their serum ALT concentrations. The treatments were well tolerated and only 4 patients discontinued therapy for adverse events (n = 3) or laboratory abnormality, all in the group treated with RBV 1000-1

## 806

DEVELOPMENT OF HEPATOCELLULAR CARCINOMA IN CHRONIC TYPE B LIVER DISEASES: A STUDY ON INFLUENCE OF FIBROSIS, INFLAMMATION AND HBV GENOTYPES. Hajime Sumi, Fumio Imazeki, Osamu Yokosuka, Tomoko Kurihara, Takaaki Imamura, Tatsuo Kanda, Kenichi Fukai, Hiromitsu Saisho, Department of Medicine and Clinical Oncology, Graduate School of Medicine, Chiba University, Chiba, Japan

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Background: Epidemiological studies have demonstrated a strong relationship between hepatocellular carcinoma (HCC) and chronic hepatitis B virus (HBV) infection. Several factors such as cirrhosis are reported to play roles in hepatocarcinogenesis. The importance of liver inflammation in the development of HCC was demonstrated in a mouse model with liver inflammation. Bby genotype also suggested to be correlated with the clinical features of HBV infection. On the other hand, recent molecular biological studies have revealed the oncogenic potential of the HBV virus itself, suggesting that the mere infection of HBV may be a risk factor for the development of HCC. Atm: This study was performed to elucidate the roles of hepatic inflammation, existence of citrhosis and IBV genotype in the development of HCC. Methods: The subjects were 332 consecutive patients with chromic HBV infection who were followed for at least 2 years at the First Department of Internal Medicine, Chiba University Hospital. Liver function rests were performed at least every 3 months and ultrasonography was performed every 6-12 months. Patients whose serunt alanine aminotransferase (ALT) level remained within the normal range during at least the last 2 years of follow-up were defined as having a sustained normal ALT level. The diagnosis of cirrhosis was made based on either the finding of cirrhosis on biopsy, or the presence of the typical ultrasonographic findings suggestive of cirrhosis and evidence of portal hypertension. The HBV genotype was determined using the patients' sera with commercial kit (Tokushu-Meneki Lahoratory, Tokyo, Japan). The diagnosis of HCC was made by liver biopsy or imaging studies. Results: Of the 332 patients in this study (207 (62.3%) men and 125 (37.7%) women, with a mean age of 36.0 ± 13.2), 43 (12.9%) had cirrhosis and 289 (87.1%) had chronic hepatitis with a mean age of 36.0 ± 13.2