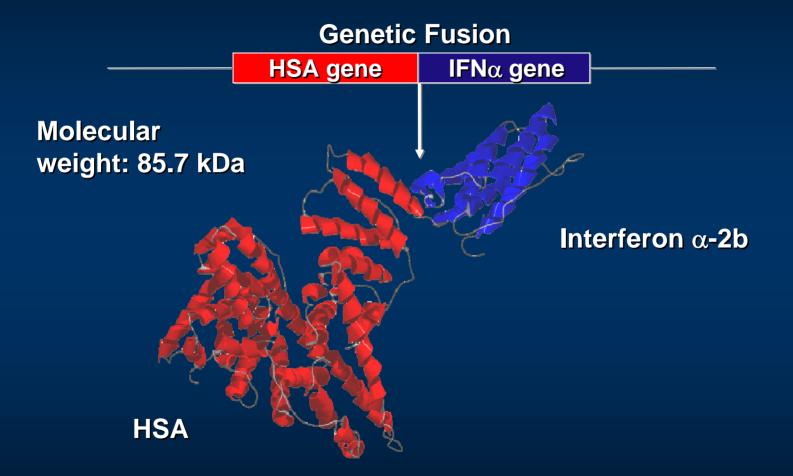
COMPARABLE ANTIVIRAL RESPONSE RATES WITH ALBINTERFERON ALFA-2B DOSED AT Q2W OR Q4W INTERVALS IN NAIVE SUBJECTS WITH GENOTYPE 2 OR 3 CHRONIC HEPATITIS C

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Study sponsored by Human Genome Sciences, Inc., Rockville, MD, USA





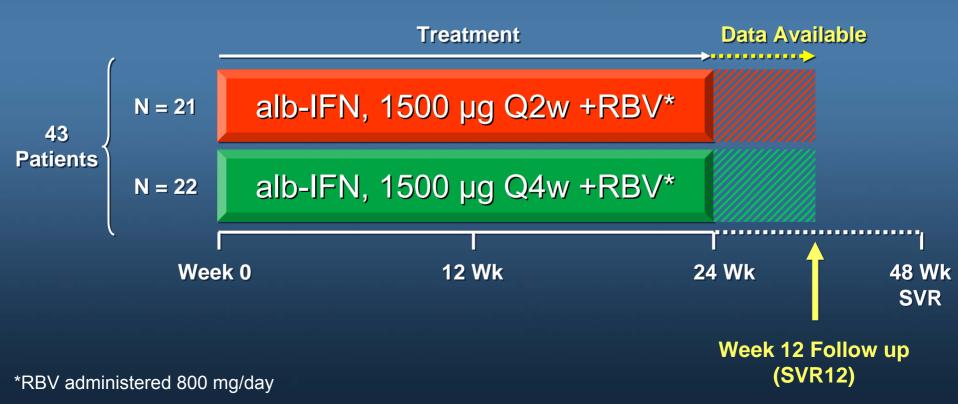
albinterferon alfa-2b (alb-IFN) is a <u>single polypeptide molecule</u> that combines the therapeutic activity of interferon alpha with the long half-life of human serum albumin



- Evaluation of efficacy and safety of albinterferon alfa-2b in genotype 2 and 3
 - Sustained virologic response (SVR) is defined as HCV RNA < 10 IU/mL at 24 weeks after the end of treatment)
- Exploratory analysis of insulin resistance and its effect on SVR
 - Homeostasis Assessment Model Insulin Resistance index (HOMA-IR)

Study Design

- Randomized, open-label study, 6 sites in Canada
- 43 patients were randomized 1:1 to two study arms
- Stratification:
 - Genotype (2 or 3)
 - HCV RNA (< 800,000 IU/mL or > 800,000 IU/mL)



Endpoints and Methods

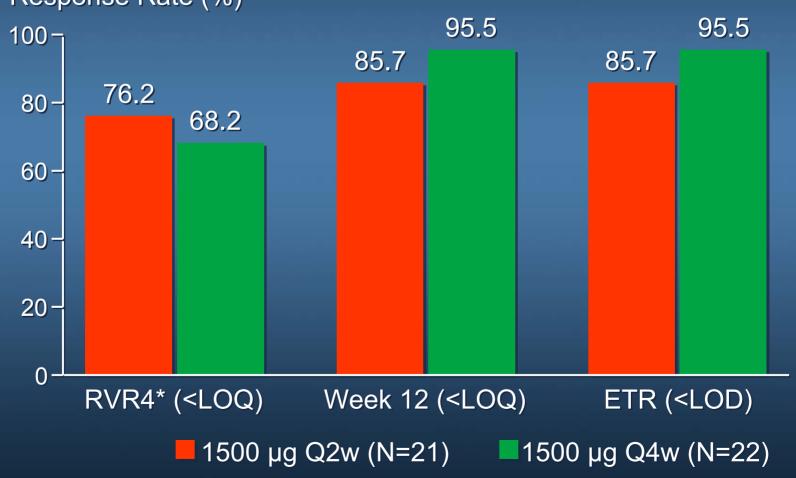
- Primary endpoint is SVR (HCV RNA negative at 24 weeks post-treatment)
 - Week 12 follow up (SVR12) is accepted as predictive of SVR¹ and is presented in this analysis
- Methods
 - Analyses are intent to treat (ITT): all subjects randomized and treated
 - HCV RNA was measured using real-time PCR (LOQ = 43 IU/mL, LOD = 10 IU/mL)

¹Zeuzem, et. al., J Hep 39:106, 2003

Baseline Characteristics

albinterferon alfa-2b	1500 µg Q2 N = 21	1500 µg Q4 N = 22
Age (yr) Mean \pm SD	44.0 ± 8.8	44.7 ± 9.6
Gender - Male	15 (71.4%)	15 (68.2%)
Ethnicity - White	19 (90.5%)	17 (77.3%)
Genotype 2 Genotype 3	10 (47.6%) 11 (52.4%)	10 (45.5%) 12 (54.5%)
HCV RNA (logIU/mL) Mean ± SD <u>></u> 800,000 IU/mL	6.3 ± 0.8 15 (71.4%)	6.0 ± 0.8 13 (59.1%)
BMI (kg/m ²) Mean \pm SD	28.5 ± 5.9	27.8 ± 4.3
HOMA-IR Mean ± SD % Insulin Resistant (HOMA-IR>2)	2.1 ± 1.1 40%	2.4 ± 1.7 50%

ITT Analysis of HCV RNA Response

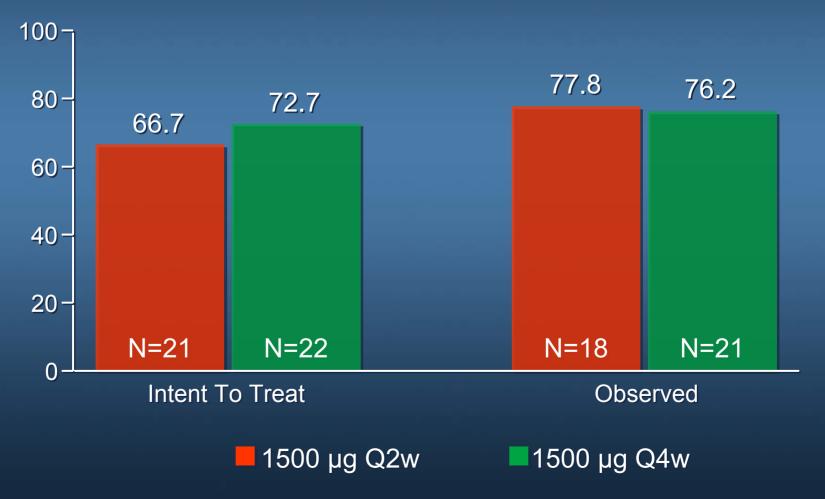


Response Rate (%)

*Rapid Viral Response at Week 4

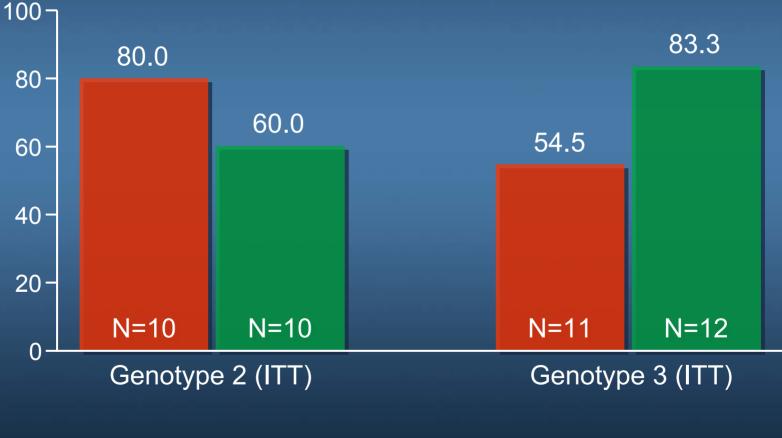
SVR12 Response Rate

SVR12 Response Rate (%)



SVR12 Response Rate by Genotype

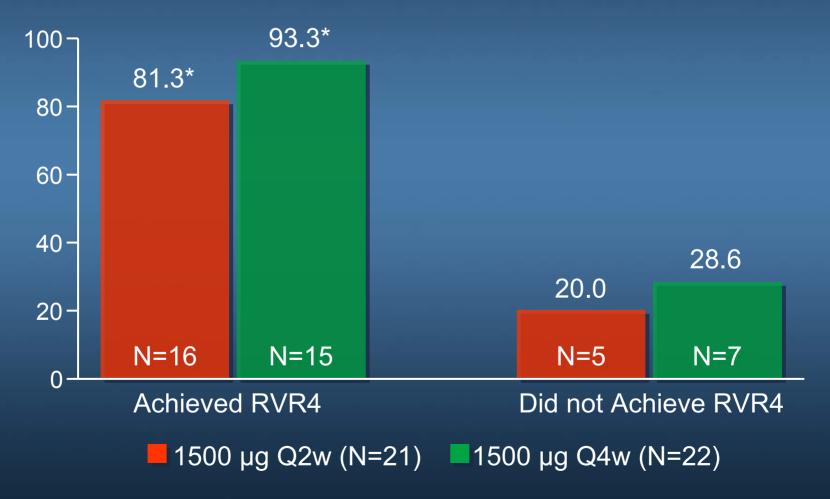
SVR12 Response Rate (%)



■1500 μg Q2w (N=21) ■1500 μg Q4w (N=22)

Predictive Value of RVR4 for SVR12

SVR12 Response Rate (%)



*P value < 0.05 vs. subjects not achieving RVR4

Association of Insulin Resistance with SVR12

Baseline HOMA-IR



Association of Insulin Resistance with Viral Response

Insulin Resistance	Insulin Resistant (HOMA-IR > 2) N = 14	Non Insulin Resistant (HOMA-IR ≤ 2) N = 17	P value
BMI (Mean ± SD)	28 ± 3.8	27 ± 5.6	0.2145
Week 4 < LOQ (RVR4)	6 (42.9%)	15 (88.2%)	0.0181
Week 12 < LOQ	11 (78.6%)	17 (100%)	0.0810
SVR12	6 (42.9%)	16 (94.1%)	0.0038*

*p=0.0105 controlling for baseline weight and BMI via logistic regression modeling.

Safety and Tolerability

albinterferon alfa-2b	1500 µg Q2w N = 21	1500 µg Q4w N = 22
Severe AE	5 (23.8%)	6 (27.3%)
Discontinued	7 (33.3%)	3 (13.6%)
Discontinued due to AE	3 (14.3%)	1 (4.5%)
IFN Dose Reduction due to AE	2 (9.5%)	0
IFN Dose Reduction due to Labs	3 (14.3%)	0

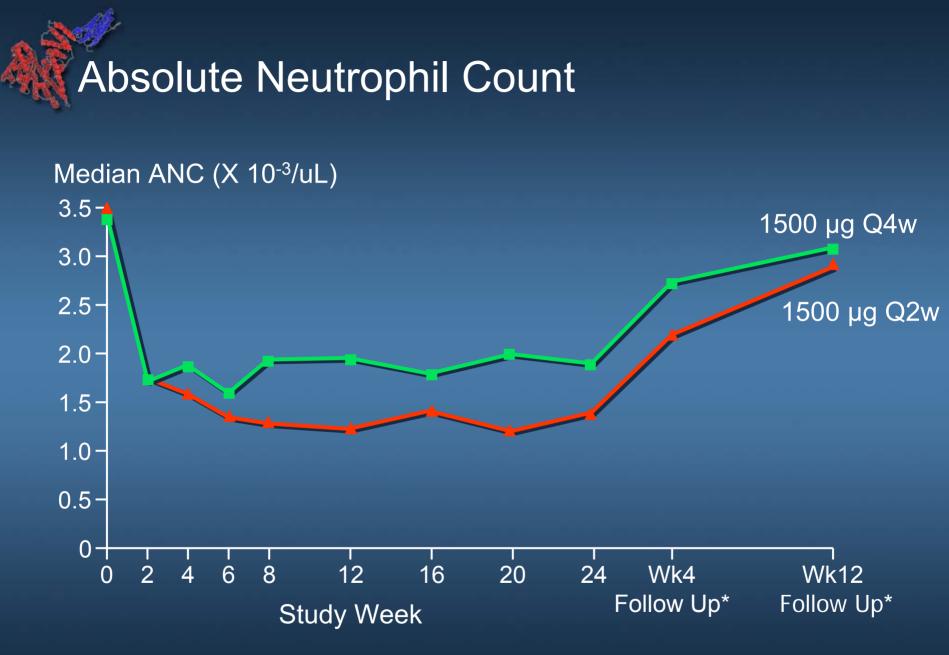
Safety and Tolerability

MOD/SEV AEs by Preferred Term in >15% of Either alb-IFN Group

MedDRA Preferred Term	1500 µg Q2w N = 21	1500 µg Q4w N = 22
Headache	10 (47.6%)	11 (50.0%)
Fatigue	7 (33.3%)	8 (36.4%)
Chills	6 (28.6%)	6 (27.3%)
Myalgia	6 (28.6%)	4 (18.2%)
Nausea	6 (28.6%)	4 (18.2%)
Pyrexia	5 (23.8%)	4 (18.2%)
Weight Decreased	6 (28.6%)	2 (9.1%)
Back Pain	5 (23.8%)	2 (9.1%)
Mood Altered	5 (23.8%)	2 (9.1%)
Arthralgia	4 (19.0%)	2 (9.1%)
Pruritus Generalized	1 (4.8%)	4 (18.2%)
Tremor	4 (19.0%)	1 (4.5%)
Vomiting	4 (19.0%)	1 (4.5%)



albinterferon alfa-2b	1500 µg Q2w	1500 µg Q4w
	N = 21	N = 22
ANC		
≤ 750 /µL	5 (23.8%)	2 (9.1%)
≤ 500 /µL	2 (9.5%)	0
Hb		
< 10 g/dL	2 (9.5%)	0
Platelets		
≤ 50,000 /µL	1 (4.8%)	0



* Includes all data including early discontinuations



- alb-IFN at 1500 µg Q4w is well tolerated and shows robust antiviral activity in genotypes 2,3
- Hematologic reductions stabilize by Week 8 and recover upon completion of therapy
 - 1500 µg Q4w had less impact on hematology
- Insulin resistance is negatively associated with viral response (RVR4 and SVR12)