

Title

RISK FACTORS FOR ANAEMIA DEVELOPMENT DURING THERAPY WITH RIBAVIRIN PLUS DIRECT-ACTING ANTIVIRALS CP-019

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Background

Anemia is a common adverse event associated with ribavirin therapy of hepatitis C patients. Peginterperon/ribavirin was the cornerstone of the treatment of hepatitis C (HCV) patients until 2011

Purpose

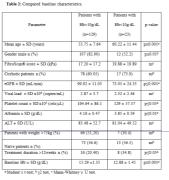
To assess the incidence of anemia and the risk factors predictive of anemia in the new context of ribavirin plus new directacting antiviral (DAA) agents

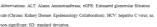
Study Design

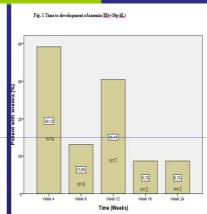
A one-year retrospective study was performed during a year. Anemia was defined as a single occurrence of hemoglobin <10g/dL at any point during treatment. Serum hemoglobin assessments were obtained at baseline and weeks 0, 4, 8, 12, 16, 20, and 24. Pre-treatment factor with potential to act as prognostic indicators of anemia including age, sex, type of treatment, genotype, FibroScan® score, cirrhotic yes/no, HCV RNA titer, dose 1000mg/1200mg, Glomerular filtration rate, alanine transaminase, albumin, treatment duration 12 vs >12 weeks and baseline hemoglobin and on-treatment factor as week 2 change from baseline were analysed by univariate and multivariate logistic regression analyses. For the resulting independent predictive factor, odds-ratio and 95% confidence intervals were calculated.

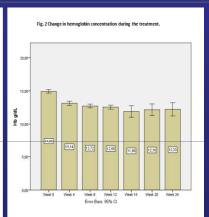
RESULTS

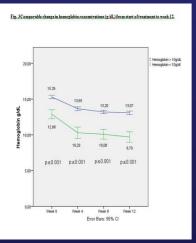


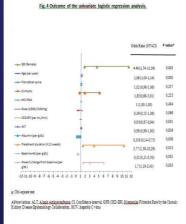












Parameter	li	tal autivar	iste model	Final	ne-treatmen mode	et multivariate d	Final	on-breakn no	est multivariate del
	RC	P value*	OR (CI 95%)	R.C.	P value*	O (CI 95%)	R.C.	P value*	OR (CI 95%)
Age (per year)	4.11	0,168	0,89 (0,76-1,05)						
Sex (female)	4,52	0,629	0,59 (0,07-4,88)						
CRD-EPI (per mL/min)	4,14	0,005	0,86 (0,78-0,96)	-0,10	0,001	0,91 (0,86-0,96)	-0,11	0,003	0,89 (0,83-0,96)
Albunin (per g/dL)	0,02	0,982	1,02 (0,15-6,97)						
Trestore duration (12weeks>12weeks)	2,78	0,022	16,10 (1,49-173,39)	2,01	0,023	7,43 (1,31-41,97)	2,97	0,013	19,45 (1,86-202,63)
Baseline Hb (per g dL)	-2,58	0,002	0;07 (0,01-0,38)	-0,91	0,001	0,40 (0,24-0,65)	-1.99	0,001	0,14 (0,04-0,41)
Week 2 change from baseline (per g off.)	4,90	0,001	139,95 (6,94-2625,70)				4,50	0,001	89,91 (5,70-1418,50)
Dose(1000mg/1200mg)	0,47 si-equand tea	0,711	1,61 (0,13-19,80)						

				Observed				
			AN	EMIA	Total	PPV	NPV	
			YES	NO	1002	11 4	341 1	
Predicted	ANEMIA	YES	13	2	15	86.60	-	
Pred	ANE	NO	10	127	137		92,70	
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CONCLUSION

The incidence of anemia with DAA has been less than with peginterferon combinations. Glomerular filtration rate, baseline hemoglobin, treatment duration > 12 weeks and estimated week 2 change from baseline have demonstrated predicting the risk of anemia.

There is not any conflict of interest at all.

✓ Acknowledgements

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