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ARTICLES IN PRESS	Endocrine predictors of acute hemodynamic effects	ABSTRACT
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ONLINE EXCLUSIVE	Andrea Giustina, MD, <u>Maurizio Volterrani</u> , MD, <u>Filippo Manelli</u> , MD,	
ONLINE LETTERS	Americo Giordano. MD	
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Aims and Scope	Received 15 August 1997; accepted 23 February 1998.	
Editorial Board	Abstract	RELATED ARTICLES
Permission to Reuse	Background The aim of our study was to assess whether there	EXPORT CITATION
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 Contact Information 	[GH] secretion rate, baseline insulin-like growin ractor-1 [IGF-1])	RIGHTS/PERMISSIONS
Pricing Information	intravenous infusion of recombinant human GH on hemodynamic	DOWNLOAD IMAGES
AUTHOR INFORMATION	parameters in 12 patients with dilated cardiomyopathy and congestive	NEED REPRINTS?
ONLINE SUBMISSION	heart failure (CHF). Methods And Results The study involved 12	BOOKMARK ARTICLE
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CAREER OPPORTUNITIES	class III or IV and 2 in class II. The first 24 hours were considered	
RSS	the control period; in fact, during the following 24 hours, all the	
	patients underwent intravenous constant pump infusion of	
	recombinant human GH. Blood samples for GH assay were taken	
American Journal	AM). Moreover, blood samples for GH assav were also taken during	
OF CARDINGRY-	exogenous GH infusion. Blood samples for IGF-1 assays were taken	
MULTIMEDIA ACTIVITY	at 8 AM of each of the 3 days of the study. Pulmonary artery pressure	
in ACS and PCI:	(PAP) and capillary wedge (PCWP) pressure, cardiac index, and	
Practical Strategies to	catheterization (baseline 1) at the end of the control period (baseline	
Improve Outcomes	2), and every 4 hours during GH infusion. A negative correlation has	
More periodicals:	been found between mean nocturnal GH levels and baseline IGF-1	
FIND A PERIODICAL	levels ($r = -0.47$, $P = .124$) and between mean nocturnal GH levels	
FIND A PORTAL	and both postinfusion absolute ($r = -0.67$, $P < .05$) and delta (postinfusion_prainfusion) ($r = -0.58$; $P < 0.05$) [GE-1 levels. No	
GO TO PRODUCT CATALOG	significant correlations have been found between several parameters	
	of liver function (albumin, bilirubin, and pseudocholinesterase) and	
	mean nocturnal GH. However, baseline IGF-1 levels showed a	
	negative significant correlation ($r = -0.76$, $P < .01$) with total billrubin	
	pseudocholinesterase. Baseline IGF-1 levels showed a significant	
	negative correlation with baseline mean PAP ($r = -0.68$, $P < .05$) and	
	PCWP ($r = -0.70$, $P < .05$) and a positive correlation with baseline	
	cardiac index (r = 0.71, P < .05). Baseline IGF-1 levels also showed a	
	significant negative correlation with absolute mean PAP ($r = -0.63$, P	
	< .00 and mean FOWE ($i = -0.0i$, $r < .00$) allet GF initiation. After GH infusion, IGE-1 levels also negatively correlated with post-GH	
	infusion mean PAP ($r = -0.50$, $P = .09$) and mean PCWP ($r = -0.66$.	
	P < .05). The positive correlation between either baseline or	

postinfusion IGF-1 and the postinfusion cardiac index (r = 0.40 and 0.43, respectively) did not reach statistical significance. **Conclusions** GH has acute functional effects on the heart in patients with CHF, including both an increase in myocardial contractility and a decrease in vascular resistances, and among patients with CHF, those with low baseline IGF-1 are likely to have fewer beneficial effects from GH

Endocrine predictors of acute hemodynamic effects of growth hormone i...

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