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Browse	litle:	Influence of delayed hyperbaric oxygenation on				
👝 Communities		recovery from mechanically induced damage.				
<u>Communities</u> <u>&amp; Collections</u>	Authors:	Nelson, AG				
		Wolf Jr, EG				
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Authors	Keywords:					
→ By Date	Issue Date:	51				
	Abstract:					
Sign on to:	ADSTIDUL.	This study examined whether subjecting a crushed muscle to a delayed intermittent				
Sign on to:		hyperbaric oxygenation protocol would facilitate				
Receive email		healing, the marker for healing being a return				
updates		toward 100% uncrushed muscle in selected				
<sub> My Rubicon</sub>		mechanical, morphologic, and biochemical				
authorized users		parameters. Thirty-six rabbits (4 groups of 9) had				
Edit Profile		the right lateral head of their gastrocnemius				
		muscle surgically crushed. After surgery, the				
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→ <u>Help</u>		rabbits were exposed daily for 90 min 5 days/wk				
		to either 100% O2 at 243 kPa, 8.5% O2 and				
		91.5% N2 at 243 kPa, 100% O2 at 101 kPa, or				
		21% O2 at 101 kPa. Initial treatments were				
		administered 16-18 h post-muscle crush. After 10				
		days of treatment, maximal twitch and tetanic				
		tension of the crushed muscle and its				
		contralateral counterpart were measured. The				
		muscles were then removed and analyzed				
		morphologically, and the activity of citrate				
		synthase, phosphofructokinase, and glucose-6-				
		phosphate dehydrogenase were measured. The				
		treatment group means for any of the parameters				
		measured were not significantly different from				
		each other. The extent of muscle damage,				
		however, was determined to be minor as the				
		control group recovery threshold was				
		approximately 80%. Thus, it seems that the				
		treatment protocol used does not facilitate				
		healing for this type of muscle crush injury.				
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