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Title:	Effects of nicotinic acid on plasma volume loss of experimental dysbarism
Authors:	Hilton, JG Wells, CH
Keywords:	decompression drug animal dog Plasma volume
Issue Date:	1976

Abstract: Two groups of dogs anesthetized with sodium pentobarbital were subjected to compression of 60 psig for 60 min and decompressed at the rate of 10 psi/min without staging. Plasma volume was measured in each group by I131-tagged albumin dilution technique prior to compression, 10 min and 60 min after decompression. One group of animals received no other treatment and the other group received 15 mg/kg of body weight of nicotinic acid by intravenous injection immediately prior to compression and an additional 7.5 mg/kg of body weight of nicotinic acid 30 min after decompression. Both the untreated and the nicotinic acid-treated animals lost significant plasma volume at both the 10- and 60-min postdecompression measurements. Nicotinic acid-treated animals lost significantly less plasma. Animals Decompression Sickness/*blood Disease Models, Animal Dogs Drug Evaluation Nicotinic Acids/*pharmacology Plasma Volume/*drug effects Prostaglandins/pharmacology

Description:	Undersea and Hyperbaric Medical Society, Inc. (http://www.uhms.org)
URI:	PMID: 951826 http://archive.rubicon-foundation.org/2761

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