

RESEARCH Validating NormaTec Technology

DYNAMIC COMPRESSION ENHANCES PRESSURE-TO-PAIN THRESHOLD IN ELITE ATHLETE RECOVERY: EXPLORATORY STUDY.

Journal of Strength & Conditioning Research 2015 May; 29(5):1263-72

“The purpose of this study was to assess peristaltic pulse dynamic compression (PPDC) in reducing short-term pressure-to-pain threshold (PPT) among Olympic Training Center athletes after morning training. [...] We conclude that PPDC is a promising means of accelerating and enhancing recovery after the normal aggressive training that occurs in Olympic and aspiring Olympic athletes.” —view article on pubmed.

PERISTALTIC PULSE COMPRESSION UPREGULATES PGC-1A AND ENOS IN HUMAN MUSCLE TISSUE.

Experimental Physiology 2015 May 15

“We investigated whether a single 60 min bout of whole-leg, lower pressure external pneumatic compression (EPC) altered select vascular, metabolic, antioxidant and inflammation-related mRNAs. [...] An acute bout of EPC transiently upregulates PGC-1 α mRNA, while also upregulating eNOS protein and NO x concentrations in vastus lateralis biopsy samples” —view article on pubmed.

PERISTALTIC PULSE COMPRESSION OF THE LOWER EXTREMITY ENHANCES FLEXIBILITY.

Journal of Strength & Conditioning Research 2014 Apr; 28(4):1058-64

“This study investigated the effects of peristaltic pulse dynamic compression (PPDC) on range-of-motion (ROM) changes in forward splits. [...] PPDC provides a means of rapidly enhancing acute ROM requiring less discomfort and time.” —view article on pubmed.

PERIPHERAL CONDUIT AND RESISTANCE ARTERY FUNCTION ARE IMPROVED FOLLOWING PERISTALTIC PULSE COMPRESSION.

European Journal of Applied Physiology 2015 May 16

“The purpose of this study was to determine the acute effects of a single bout of peristaltic pulse EPC on peripheral conduit and resistance artery function. [...] Acutely, whole limb, lower pressure EPC improves conduit artery endothelial function systemically, but only improves RH blood flow locally (i.e., compressed limbs).” —view article on pubmed.