



Focused Research Topics

Coenzyme Q10 & Heart Failure

Study Types	Research Articles
Human Study	13
Review	4
Meta Analysis	1

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Below you will find compelling research hard-referenced to peer-reviewed biomedical research sourced from the US National Library of Medicine. For more research on over 6000 validated topics, please visit

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Associated Topics included in this Focused Research

Coenzyme Q10
Ubiquinol

View the Evidence

18 Research Articles in Total

Atorvastatin worsens left ventricular diastolic function, which is improved through coenzyme q10 supplementation.

Pubmed Data : Am J Cardiol. 2004 Nov 15 ;94(10):1306-10. PMID: [15541254](#)

Article Published Date : Nov 15, 2004

Authors : Marc A Silver, Peter H Langsjoen, Szabolcs Szabo, Harish Patil, Allan Zelinger

Study Type : Human Study

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Coenzyme Q10 Deficiency : CK(83) : AC(13) , Heart Failure : CK(948) : AC(126) , Hypertension : CK(2984) : AC(406), Statin-Induced Pathologies : CK(1638) : AC(327)

Pharmacological Actions : Anticholesteremic Agents : CK(1459) : AC(264) , Antioxidants : CK(8430) : AC(3132)

Problem Substances : Atorvastatin : CK(516) : AC(99) , Statin Drugs : CK(4369) : AC(517)

Adverse Pharmacological Actions : Cardiotoxic : CK(722) : AC(96)

The administration of CoQ10 to heart transplant candidates led to a significant improvement in functional status, clinical symptoms, and quality of life.

Pubmed Data : Clin Cardiol. 2004 May;27(5):295-9. PMID: [15188947](#)

Article Published Date : May 01, 2004

Authors : Marius Berman, Arie Erman, Tuvia Ben-Gal, Dan Dvir, Georgios P Georghiou, Alon Stamler, Yaffa Vered, Bernardo A Vidne, Dan Aravot

Study Type : Human Study

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Heart Failure : CK(948) : AC(126)

Pharmacological Actions : Tumor Necrosis Factor (TNF) Alpha Inhibitor : CK(1823) : AC(669)

Ubiquinol + L-carnitine can cause a significant reduction in the pro-inflammatory cytokines in patients with heart failure.

Pubmed Data : Acta Cardiol. 2007 Aug;62(4):349-54. PMID: [17824295](#)

Article Published Date : Aug 01, 2007

Authors : Adarsh Kumar, Ram B Singh, Manoj Saxena, Mohammad A Niaz, Shashank R Josh, Pronobesh Chattopadhyay, Viola Mechirova, Daniel Pella, Jan Fedacko

Study Type : Human Study

Additional Links

Substances : Carnitine : CK(441) : AC(70), Coenzyme Q10 : CK(1234) : AC(183), Ubiquinol : CK(138) : AC(24)

Diseases : Heart Failure : CK(948) : AC(126)

Pharmacological Actions : Interleukin-6 Downregulation : CK(1137) : AC(354)

Coenzyme q10 appears to prevent tachycardia in heart failure patients

Pubmed Data : Biofactors. 2008;32(1-4):145-9. PMID: [19096110](#)

Article Published Date : Jan 01, 2008

Authors : K Adarsh, H Kaur, V Mohan

Study Type : Human Study

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Heart Failure : CK(948) : AC(126), Tachycardia : CK(65) : AC(9)

Coenzyme Q10 as an adjuvant in conventional therapy for heart failure reduces hospitalization and incidence of serious complications.

Pubmed Data : Clin Investig. 1993;71(8 Suppl):S134-6. PMID: [8241697](#)

Article Published Date : Jan 01, 1993

Authors : C Morisco, B Trimarco, M Condorelli

Study Type : Human Study

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Congestive Heart Failure : CK(276) : AC(34), Heart Failure : CK(948) : AC(126)

Coenzyme Q10 improves ejection fraction as an adjunctive therapy for congestive heart failure.

Pubmed Data : N Z Med J. 2009 Oct 30;122(1305):74-9. PMID: [19966871](#)

Article Published Date : Oct 30, 2009

Authors : Sarah L Molyneux, Christopher M Florkowski, A Mark Richards, Michael Lever, Joanna M Young, Peter M George

Study Type : Human Study

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Congestive Heart Failure : CK(276) : AC(34) , Heart Dysfunction: Ejection Fraction, Low : CK(10) : AC(1), Heart Failure : CK(948) : AC(126)

Additional Keywords : Statin Intervention has not Improved Outcomes in Congestive Heart Failure : CK(10) : AC(1)

Coenzyme Q10 is an effective adjunctive treatment in congestive heart failure.

Pubmed Data : Mol Aspects Med. 1997;18 Suppl:S159-68. PMID: [9266518](#)

Article Published Date : Jan 01, 1997

Authors : A M Soja, S A Mortensen

Study Type : Review

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Congestive Heart Failure : CK(276) : AC(34) , Heart Failure : CK(948) : AC(126)

Coenzyme Q10 may be an effective adjunctive treatment of chronic heart failure.

Pubmed Data : Med Hypotheses. 2009 Sep;73(3):306-8. Epub 2009 May 5. PMID: [19409711](#)

Article Published Date : Sep 01, 2009

Authors : Emmy Okello, Xuejun Jiang, Salim Mohamed, Qinyan Zhao, Tao Wang

Study Type : Review

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Drug-Induced Nutrient Depletion: Statin Drugs : CK(147) : AC(34) , Heart Failure : CK(948) : AC(126), Statin-Induced Pathologies : CK(1638) : AC(327)

CoenzymeQ10 as adjuvant treatment in patients with heart failure may attenuate the incidence of atrial fibrillation.

Pubmed Data : J Investig Med. 2015 Jun ;63(5):735-9. PMID: [25919281](#)

Article Published Date : May 31, 2015

Authors : Qingyan Zhao, A Hafid Kebbati, Yuguo Zhang, Yanhong Tang, Emmy Okello, Congxin Huang

Study Type : Human Study

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Atrial Fibrillation : CK(422) : AC(52) , Heart Failure : CK(948) : AC(126)

Pharmacological Actions : Cardioprotective : CK(1596) : AC(409) , Malondialdehyde Down-regulation : CK(554) : AC(152)

Additional Keywords : Significant Treatment Outcome : CK(3038) : AC(366)

CoQ(10) may improve the ejection fraction in patients with congestive heart failure.

Pubmed Data : Am J Clin Nutr. 2012 Dec 5. Epub 2012 Dec 5. PMID: [23221577](#)

Article Published Date : Dec 04, 2012

Authors : A Domnica Fotino, Angela M Thompson-Paul, Lydia A Bazzano

Study Type : Meta Analysis

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Congestive Heart Failure : CK(276) : AC(34) , Heart Failure : CK(948) : AC(126)

Pharmacological Actions : Cardioprotective : CK(1596) : AC(409) , Cardiotonic Agents : CK(46) : AC(7)

Coq10 is safe and efficacious as an adjunctive therapy in heart failure.

Pubmed Data : Forsch Komplementarmed Klass Naturheilkd. 2005 Apr;12(2):77-83. PMID: [8241700](#)

Article Published Date : Apr 01, 2005

Authors : E Baggio, R Gandini, A C Plancher, M Passeri, G Carmosino

Study Type : Human Study

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Heart Failure : CK(948) : AC(126)

Coq10 used as an adjunctive therapy in heart failure

improves clinical signs and symptoms in the majority of patients tested.

Pubmed Data : Mol Aspects Med. 1994;15 Suppl:s287-94. PMID: [7752841](#)

Article Published Date : Jan 01, 1994

Authors : E Baggio, R Gandini, A C Plancher, M Passeri, G Carmosino

Study Type : Human Study

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Heart Failure : CK(948) : AC(126)

Pharmacological Actions : Cardiovascular Agents : CK(160) : AC(24)

Long-term coenzyme Q10 therapy has significant therapeutic effects in patients with advanced heart failure.

Pubmed Data : Wien Klin Wochenschr. 2005 Aug;117(15-16):558-60. PMID: [3836876](#)

Article Published Date : Aug 01, 2005

Authors : S A Mortensen, S Vadhanavikit, U Baandrup, K Folkers

Study Type : Human Study

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Heart Failure : CK(948) : AC(126)

Long-term CoQ10 treatment of patients with chronic heart failure is safe, improves symptoms, and reduces major adverse cardiovascular events.

Pubmed Data : JACC Heart Fail. 2014 Dec ;2(6):641-9. Epub 2014 Oct 1. PMID: [25282031](#)

Article Published Date : Nov 30, 2014

Authors : Svend A Mortensen, Franklin Rosenfeldt, Adarsh Kumar, Peter Dolliner, Krzysztof J Filipiak, Daniel Pella, Urban Alehagen, Günter Steurer, Gian P Littarru,

Study Type : Human Study

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Heart Failure : CK(948) : AC(126)

Pharmacological Actions : Cardioprotective : CK(1596) : AC(409)

Additional Keywords : Risk Reduction : CK(6417) : AC(686)

Pycnogenol® in combination with coenzymeQ10 may be of

value in heart failure patients.

Pubmed Data : Panminerva Med. 2010 Jun ;52(2 Suppl 1):21-5. PMID: [20657530](#)

Article Published Date : May 31, 2010

Authors : G Belcaro, M R Cesarone, M Dugall, M Hosoi, E Ippolito, P Bavera, M G Grossi

Study Type : Human Study

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Heart Failure : CK(948) : AC(126) , Hypertension : CK(2984) : AC(406)

Statin drugs result in coq10 depletion associated with congestive heart failure and which may be rectified by supplementation.

Pubmed Data : Biofactors. 2003;18(1-4):101-11. PMID: [14695925](#)

Article Published Date : Jan 01, 2003

Authors : Peter H Langsjoen, Alena M Langsjoen

Study Type : Review

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Drug-Induced Nutrient Depletion: Statin Drugs : CK(147) : AC(34) , Heart Failure : CK(948) : AC(126), Statin-Induced Pathologies : CK(1638) : AC(327)

Additional Keywords : Drug-Nutrient Depletion : CK(64) : AC(7) , Statin-Coq10 Depletion : CK(36) : AC(5)

Supplemental Coenzyme Q10 may be a useful option for effective management of patients with heart failure.

Pubmed Data : Open Heart. 2015 ;2(1):e000326. Epub 2015 Oct 19. PMID: [26512330](#)

Article Published Date : Dec 31, 2014

Authors : James J DiNicolantonio, Jaikrit Bhutani, Mark F McCarty, James H O'Keefe

Study Type : Review

Additional Links

Substances : Coenzyme Q10 : CK(1234) : AC(183)

Diseases : Heart Failure : CK(948) : AC(126)

Additional Keywords : Risk Reduction : CK(6417) : AC(686)

Supplemental ubiquinol has therapeutic effects in advanced congestive heart failure patients.

Pubmed Data : Biofactors. 2008;32(1-4):119-28. PMID: [19096107](#)

Article Published Date : Jan 01, 2008

Authors : Peter H Langsjoen, Alena M Langsjoen

Study Type : Human Study

Additional Links

Substances : [Coenzyme Q10](#) : CK(1234) : AC(183), [Ubiquinol](#) : CK(138) : AC(24)

Diseases : [Congestive Heart Failure](#) : CK(276) : AC(34), [Heart Failure](#) : CK(948) : AC(126)

Pharmacological Actions : [Cardiotonic Agents](#) : CK(46) : AC(7)

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