Dietary Modification: Low Carbohydrate/Ketogenic

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Research Topic
Dietary Modification: Low Carbohydrate/Ketogenic

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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 http://GreenMedInfo.com/research-dashboard
### Overview of Terms

**Associated with Your Search Topic**

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<th>Disease/Symptom</th>
<th>Cumulative Knowledge</th>
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### Mitochondrial Diseases

- **Neuroblastoma**

### 5 Relevant Results for Therapeutic Actions

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<td>Integrative Medicine</td>
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### 7 Relevant Results for Substances

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### 9 Relevant Results for Pharmacological Actions

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5 Relevant Results for Keywords

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<td>Drug Sparing</td>
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<td>Significant Treatment Outcome</td>
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3 Relevant Results for Problem Substances

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<td>Wheat</td>
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<td>Non-Steroidal Anti-Inflammatory Drugs (NSAIDs)</td>
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**View the Evidence.**

**51 Research Articles in Total.**

**Category: Diseases**
The ketogenic diet may have therapeutic value in neuromuscular and neurodegenerative Diseases.

Article Published Date: Dec 31, 2013
Authors: Antonio Paoli, Antonino Bianco, Ernesto Damiani, Gerardo Bosco
Study Type: Review
Additional Links
Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249): AC(43)

The ketogenic diet was neuroprotective and anti-inflammatory against MPTP-neurotoxicity.

Article Published Date: Sep 30, 2010
Authors: Xinxin Yang, Baohua Cheng
Study Type: Animal Study
Additional Links
Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249): AC(43)
Pharmacological Actions: Neuroprotective Agents: CK(2127): AC(919)
Problem Substances: Non-Steroidal Anti-Inflammatory Drugs (NSAIDs): CK(1588): AC(134)

High-fat and ketogenic diets may have value in treating
Amyotrophic lateral sclerosis (ALS)

A ketogenic diet in combination with nutritional supplementation has remarkable therapeutic properties in a rodent model of ALS.

The ketogenic diet may have therapeutic value in neuromuscular and neurodegenerative Diseases.
**The ketogenic diet may have value in ALS.**


**Article Published Date**: Jun 30, 2011

**Authors**: Sergiusz Jóźwiak, Eric H Kossoff, Katarzyna Kotulska-Jóźwiak

**Study Type**: Review

**Additional Links**

**Diseases**: Amyotrophic lateral sclerosis (ALS) : CK(547) : AC(132)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

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**The ketogenic diet was neuroprotective and anti-inflammatory against MPTP-neurotoxicity.**


**Article Published Date**: Sep 30, 2010

**Authors**: Xinxin Yang, Baohua Cheng

**Study Type**: Animal Study

**Additional Links**

**Diseases**: Amyotrophic lateral sclerosis (ALS) : CK(547) : AC(132), Parkinson's Disease : CK(918) : AC(85)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

**Pharmacological Actions**: Neuroprotective Agents : CK(2127) : AC(919)

**Problem Substances**: Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) : CK(1588) : AC(134)

---

**Aspartate-glutamate carrier (AGC1) Deficiency (AC 1) (CK 3)**

The ketogenic diet compensates for AGC1 deficiency and improves myelination.
**Astrocytoma (AC 1) (CK 1)**

*A high fat/low carbohydrate ketogenic diet is therapeutic in an animal model of brain cancer.*

**Pubmed Data** : Nutr Metab (Lond). 2007 Feb 21;4:5. PMID: 17313687

**Article Published Date** : Feb 21, 2007

**Authors** : Weihua Zhou, Purna Mukherjee, Michael A Kiebish, William T Markis, John G Mantis, Thomas N Seyfried

**Study Type** : In Vitro Study

**Additional Links**

**Diseases** : Astrocytoma : CK(2) : AC(2), Brain Cancer : CK(262) : AC(96), Glioma : CK(137) : AC(46)

**Therapeutic Actions** : Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

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**Autism (AC 1) (CK 3)**

*Autism and Dietary Therapy: Case Report and Review of the Literature.*

**Pubmed Data** : J Child Neurol. 2013 May 10. Epub 2013 May 10. PMID: 23666039

**Article Published Date** : May 09, 2013
**Autism Spectrum Disorders (AC 2) (CK 13)**

**Autism and Dietary Therapy: Case Report and Review of the Literature.**


**Article Published Date** : May 09, 2013

**Authors** : Martha R Herbert, Julie A Buckley

**Study Type** : Human: Case Report

**Additional Links**

**Substances** : Medium Chain Triglycerides : CK(53) : AC(15)


**Therapeutic Actions** : Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43), Dietary Modification: Wheat/Gluten Free : CK(293) : AC(43)

**Problem Substances** : Casein : CK(135) : AC(16), Wheat : CK(2775) : AC(335)

**Calorically restricted diets could be effective in reducing the anxiety and in improving motor behavior in girls with Rett Syndrome.**


**Article Published Date** : Jun 01, 2009

**Authors** : John G Mantis, Christie L Fritz, Jeremy Marsh, Stephen C Heinrichs, Thomas N Seyfried

**Study Type** : Human Study

**Additional Links**

**Diseases** : Autism Spectrum Disorders : CK(1448) : AC(156), Rett Syndrome : CK(20) : AC(2)
Autoimmune Diseases (AC 1) (CK 2)

A diet mimicking fasting promotes regeneration and reduces autoimmunity and multiple sclerosis symptoms.


Article Published Date: Jun 06, 2016

Authors: In Young Choi, Laura Piccio, Patra Childress, Bryan Bollman, Arko Ghosh, Sebastian Brandhorst, Jorge Suarez, Andreas Michalsen, Anne H Cross, Todd E Morgan, Min Wei, Friedemann Paul, Markus Bock, Valter D Longo

Study Type: Animal Study

Additional Links

Diseases: Autoimmune Diseases: CK(6200): AC(880), Multiple Sclerosis: Relapsing-Remitting: CK(92): AC(1)

Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249): AC(43), Fasting/Caloric Restriction: CK(235): AC(52)

Additional Keywords: Dietary Modification: CK(287): AC(33)

Brain Cancer (AC 4) (CK 4)

A high fat/low carbohydrate ketogenic diet is therapeutic in an animal model of brain cancer.

Pubmed Data: Nutr Metab (Lond). 2007 Feb 21;4:5. PMID: 17313687

Article Published Date: Feb 21, 2007

Authors: Weihua Zhou, Purna Mukherjee, Michael A Kiebish, William T Markis, John G Mantis, Thomas N Seyfried

Study Type: In Vitro Study

Additional Links


Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249): AC(43)
Calorically restricted ketogenic diets may provide an alternative therapy to brain cancer.

**Pubmed Data**: Epilepsia. 2008 Nov;49 Suppl 8:114-6. PMID: [19049606](https://www.ncbi.nlm.nih.gov/pubmed/19049606)
**Article Published Date**: Nov 01, 2008
**Authors**: Thomas N Seyfried, Michael Kiebish, Purna Mukherjee, Jeremy Marsh
**Study Type**: Commentary
**Additional Links**
**Diseases**: Brain Cancer : CK(262) : AC(96)
**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

Dietary manipulation through the elimination of glucose and/or a ketogenic diet may be therapeutic in the treatment of brain cancer.

**Article Published Date**: Jan 01, 2009
**Authors**: Robert Skinner, Angelica Trujillo, Xiaojie Ma, Elizabeth A Beierle
**Study Type**: In Vitro Study
**Additional Links**
**Diseases**: Brain Cancer : CK(262) : AC(96), Neuroblastoma : CK(51) : AC(31)
**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

Metabolic therapy: a new paradigm for managing malignant brain cancer.

**Article Published Date**: Jan 27, 2015
**Authors**: Thomas N Seyfried, Roberto Flores, Angela M Poff, Dominic P D'Agostino, Purna Mukherjee
**Study Type**: Review
**Additional Links**
**Diseases**: Brain Cancer : CK(262) : AC(96)
**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

Brain: Microglial Activation (AC 1) (CK
The ketogenic diet was neuroprotective and anti-inflammatory against MPTP-neurotoxicity.


**Article Published Date**: Sep 30, 2010

**Authors**: Xinxin Yang, Baohua Cheng

**Study Type**: Animal Study


**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249): AC(43)

**Pharmacological Actions**: Neuroprotective Agents: CK(2127): AC(919)

**Problem Substances**: Non-Steroidal Anti-Inflammatory Drugs (NSAIDs): CK(1588): AC(134)

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Breast Cancer (AC 1) (CK 3)

A combination of high-dose vitamin D3 and ketogenic diet leads to changes in some biological markers of breast cancer.


**Article Published Date**: Sep 30, 2015

**Authors**: Jacopo J V Branca, Stefania Pacini, Marco Ruggiero

**Study Type**: Human: Case Report

**Diseases**: Breast Cancer: CK(3368): AC(997)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249): AC(43)

**Problem Substances**: Vitamin D: CK(2705): AC(379)
Deuterium depletion in water offers a new adjuvant and protective cancer therapy.

Article Published Date: Jan 31, 2016
Authors: László G Boros, Dominic P D'Agostino, Howard E Katz, Justine P Roth, Emmanuelle J Meuillet, Gábor Somlyai
Study Type: Commentary
Additional Links
Substances: Water: Deuterium Depleted: CK(27): AC(2)
Diseases: Cancers: All: CK(13861): AC(4344)
Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249): AC(43)

Ketogenic diets administered as supportive measures during standard therapy are safe and might be helpful in preservation of muscle mass.

Article Published Date: Dec 31, 2015
Authors: Rainer J Klement, Reinhart A Sweeney
Study Type: Human Study
Additional Links
Diseases: Cancers: All: CK(13861): AC(4344)

There was an overall tumor growth delaying effect of unrestricted ketogenic diets in mice.

Article Published Date: Dec 31, 2015
Authors: Rainer J Klement, Colin E Champ, Christoph Otto, Ulrike Kämmerer
Study Type: Meta Analysis
Additional Links
Diseases: Cancers: All: CK(13861): AC(4344)
**Casein Intolerance (AC 1) (CK 3)**

**Autism and Dietary Therapy: Case Report and Review of the Literature.**


**Article Published Date** : May 09, 2013

**Authors** : Martha R Herbert, Julie A Buckley

**Study Type** : Human: Case Report

**Additional Links**

**Substances** : Medium Chain Triglycerides : CK(53) : AC(15)


**Therapeutic Actions** : Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43), Dietary Modification: Wheat/Gluten Free : CK(293) : AC(43)

**Problem Substances** : Casein : CK(135) : AC(16), Wheat : CK(2775) : AC(335)

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**Chronic Kidney Disease (CKD) (AC 1) (CK 10)**

**The ketogenic diet seems nutritionally safe and could defer dialysis initiation in some patients with chronic kidney disease.**


**Article Published Date** : Jan 27, 2016

**Authors** : Liliana Garneata, Alexandra Stancu, Diana Dragomir, Gabriel Stefan, Gabriel Mircescu

**Study Type** : Human Study
Chronic Obstructive Pulmonary Disease (AC 1) (CK 10)

Modifying the diet by increasing fat intake and lowering carbohydrate may have a therapeutic effect in COPD.

Article Published Date: Mar 01, 2003
Authors: Baiqiang Cai, Yuanjue Zhu, Y i Ma, Zuojun Xu, Y i Zao, Jinglan Wang, Yaoguang Lin, Gail M Comer
Study Type: Human Study

Congenital Disorders (AC 1) (CK 3)

The ketogenic diet could represent an effective treatment to support brain function in selected cases of congenital hyperinsulinism.

Pubmed Data: Orphanet J Rare Dis. 2015 ;10(1):120. Epub 2015 Sep 24. PMID: 26399329
Article Published Date: Dec 31, 2014
Authors: Arianna Maiorana, Lucilla Manganozzi, Fabrizio Barbetti, Silvia Bernabei, Giorgia Gallo, Raffaella Cusmai, Stefania Caviglia, Carlo Dionisi-Vici
Convulsive Seizures (AC 1) (CK 1)

"The ketogenic diet: mechanism of anticonvulsant action."

Pubmed Data: Adv Neurol. 1980;27:635-42. PMID: 6990715
Article Published Date: Dec 31, 1979
Authors: C D Withrow
Study Type: Review
Additional Links
Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic: CK(315): AC(52)
Pharmacological Actions: Anticonvulsants: CK(216): AC(30)

Diabetes Mellitus: Type 2 (AC 1) (CK 10)

The long-term effects of a diet loosely restricting carbohydrates results in significantly improved HbA1c levels, blood lipid profiles and reduced drug requirements in type 2 diabetes.

Article Published Date: Feb 01, 2008
Authors: Hajime Haimoto, Mitsunaga Iwata, Kenji Wakai, Hiroyuki Umegaki
Study Type: Human Study


Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249): AC(43)

---

**Diabetes: Glycation/A1C (AC 1) (CK 10)**

The long-term effects of a diet loosely restricting carbohydrates results in significantly improved HbA1c levels, blood lipid profiles and reduced drug requirements in type 2 diabetes.


Article Published Date: Feb 01, 2008

Authors: Hajime Haimoto, Mitsunaga Iwata, Kenji Wakai, Hiroyuki Umegaki

Study Type: Human Study

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**Dravet syndrome (AC 2) (CK 20)**

The ketogenic diet has significant therapy value in treating drug-resistant childhood epilepsy.


Article Published Date: Sep 01, 2010

Authors: Anastasia Dressler, Benjamin Stöcklin, Eva Reithofer, Franz Benninger, Michael Freiling, Erwin Hauser, Edith Reiter-Fink, Rainer Seidl, Petra Trimmel-Schwahofer, Martha Feucht

Study Type: Human Study

---
**The ketogenic diet significantly improves quality of life, and reduces both seizures and medication needs in most patients with Dravet syndrome studied.**

*Pubmed Data* : Epilepsia. 2005 Sep;46(9):1539-44. PMID: [16146451](https://pubmed.ncbi.nlm.nih.gov/16146451/)

*Article Published Date* : Sep 01, 2005

*Authors* : Roberto Horacio Caraballo, Ricardo Oscar Cersósimo, Diego Sakr, Araceli Cresta, Nidia Escobal, Natalio Fejerman

*Diseases* : Dravet syndrome : CK(30) : AC(3)

**Therapeutic Actions** : Dietary Modification: Low Carbohydrate/Ketogenic : CK(315) : AC(52)

**Pharmacological Actions** : Anticonvulsants : CK(216) : AC(30)

**Additional Keywords** : Drug Sparing : CK(451) : AC(50)

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**Epilepsy (AC 5) (CK 15)**

**A ketogenic diet may suppress neuronal hyperexcitability in patients with epilepsy.**


*Article Published Date* : Dec 01, 2009

*Authors* : Carl E Stafstrom

*Study Type* : Review

**Diseases** : Epilepsy : CK(244) : AC(60)

**Therapeutic Actions** : Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

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**Ketogenic diet therapy might be uniquely suited to reset the epileptogenic clock and to provide long-lasting relief from seizures even after discontinuation of the diet.**


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The ketogenic diet leads to increases in circulating ketones, which may contribute to the efficacy in treating pharmacoresistant seizures.


**The ketogenic diet was beneficial for patients with GLUT-1 deficiency syndrome.**


**The scientific literature involving the ketogenic diet strongly supports the notion that epilepsy may indeed in part represent a metabolic disease.**

Epilepsy: Childhood (AC 7) (CK 70)

**A Ketogenic diet is effective in refractory epilepsy of childhood.**


**Authors** : M Galván Manso, M Arellano, A Sans, F X Sanmartí, L Gómez, A Vernet, J Campistol

**Study Type** : Human Study

**Additional Links**

**Substances** : Medium Chain Triglycerides : CK(55) : AC(16)

**Diseases** : Epilepsy: Childhood : CK(120) : AC(5)

**Therapeutic Actions** : Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

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**A ketogenic diet is an effective therapeutic modality for epilepsy associated with tuberous sclerosis in children.**


**Article Published Date** : Oct 01, 2005

**Authors** : Eric H Kossoff, Elizabeth A Thiele, Heidi H Pfeifer, Jane R McGrogan, John M Freeman

**Study Type** : Human Study

**Additional Links**

**Diseases** : Epilepsy: Childhood : CK(120) : AC(5), Tuberous Sclerosis : CK(20) : AC(2)

**Therapeutic Actions** : Dietary Modification: Low Carbohydrate/Ketogenic : CK(315) : AC(52)

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**Both a modified Atkins diet and the classic ketogenic diet could be used in the treatment of intractable epilepsy in children.**

**Pubmed Data** : Epilepsia. 2015 Dec 10. Epub 2015 Dec 10. PMID: 26662710

**Article Published Date** : Dec 09, 2015

**Authors** : Jeong A Kim, Jung-Rim Yoon, Eun Joo Lee, Joon Soo Lee, Jeong Tae Kim, Heung Dong
Potassium citrate reduces kidney-stone incidence in children treated with a ketogenic diet for intractable epilepsy.

Article Published Date: Aug 01, 2009
Authors: Melanie A McNally, Paula L Pyzik, James E Rubenstein, Rana F Hamdy, Eric H Kossoff
Study Type: Human Study
Additional Links
Substances: Potassium: CK(110) : AC(15)
Diseases: Epilepsy: Childhood: CK(120) : AC(5), Kidney Stones: CK(159) : AC(29)
Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249) : AC(43)

Six months after initiating the ketogenic diet it led to a 50% reduction in seizure frequency in those that responded to the diet.

Article Published Date: Oct 31, 2015
Authors: Andrea Sariego-Jamardo, Angels García-Cazorla, Rafael Artuch, Esperanza Castejón, Dolores García-Arenas, Marta Molero-Luis, Aida Ormazábal, Francesc Xavier Sanmartí
Study Type: Human Study
Additional Links
Diseases: Epilepsy: Childhood: CK(120) : AC(5), Epileptic Seizures: CK(192) : AC(10)
Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic: CK(315) : AC(52)
Pharmacological Actions: Anticonvulsants: CK(216) : AC(30)

The ketogenic diet has significant therapy value in treating drug-resistant childhood epilepsy.

Article Published Date: Sep 01, 2010
Authors: Anastasia Dressler, Benjamin Stöcklin, Eva Reithofer, Franz Benninger, Michael Freiling, Erwin Hauser, Edith Reiter-Fink, Rainer Seidl, Petra Trimmel-Schwahofer, Martha Feucht
Study Type: Human Study
Additional Links
The ketogenic diet is an effective therapy for children with therapy-resistant epilepsy.


**Article Published Date**: Sep 30, 2015

**Authors**: Danielle A J E Lambrechts, Reina J A de Kinderen, Hans S H Vles, Anton J de Louw, Albert P Aldenkamp, Marian J M Majoie

**Study Type**: Human Study

**Additional Links**

**Diseases**: Epilepsy: Childhood : CK(120) : AC(5)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic : CK(315) : AC(52)

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Epilepsy: Infant (AC 2) (CK 13)

The ketogenic diet compensates for AGC1 deficiency and improves myelination.


**Article Published Date**: Sep 23, 2015

**Authors**: Maria Dahlin, Daniel A Martin, Zandra Hedlund, Monica Jonsson, Ulrika von Döbeln, Anna Wedell

**Study Type**: Human: Case Report

**Additional Links**

**Diseases**: Aspartate-glutamate carrier (AGC1) Deficiency : CK(3) : AC(1), Epilepsy: Infant : CK(10) : AC(1), Neurologic Disorders : CK(52) : AC(20), Seizures : CK(148) : AC(33)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

**Pharmacological Actions**: Neuroprotective Agents : CK(2168) : AC(1013)

**Additional Keywords**: Significant Treatment Outcome : CK(2720) : AC(334)

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The ketogenic diet is highly effective and well tolerated in infants with epilepsy.


**Article Published Date**: Sep 30, 2015
The ketogenic diet: mechanism of anticonvulsant action.

Pubmed Data : Adv Neurol. 1980 ;27:635-42. PMID: 6990715

Article Published Date : Dec 31, 1979

Authors : C D Withrow

Study Type : Review

Additional Links

Diseases : Convulsive Seizures : CK(12) : AC(2), Epileptic Seizures : CK(192) : AC(10)

Therapeutic Actions : Dietary Modification: Low Carbohydrate/Ketogenic : CK(315) : AC(52)

Pharmacological Actions : Anticonvulsants : CK(216) : AC(30)

Six months after initiating the ketogenic diet it led to a 50% reduction in seizure frequency in those that responded to the diet.


Article Published Date : Oct 31, 2015

Authors : Andrea Sariego-Jamardo, Angels García-Cazorla, Rafael Artuch, Esperanza Castejón, Dolores García-Arenas, Marta Molero-Luis, Aida Ormazábal, Francesc Xavier Sanmartí

Study Type : Human Study

Additional Links

Diseases : Epilepsy: Childhood : CK(120) : AC(5), Epileptic Seizures : CK(192) : AC(10)

Therapeutic Actions : Dietary Modification: Low Carbohydrate/Ketogenic : CK(315) : AC(52)

Pharmacological Actions : Anticonvulsants : CK(216) : AC(30)

The ketogenic diet is highly effective and well tolerated in infants with epilepsy.
The ketogenic diet may alter brain handling of glutamate, an excitotoxin, through enhanced conversion to glutamine and then to GABA.

A low-carbohydrate, ketogenic diet improves fatty liver disease.
Glioma (AC 2) (CK 3)

A high fat/low carbohydrate ketogenic diet is therapeutic in an animal model of brain cancer.

Pubmed Data: Nutr Metab (Lond). 2007 Feb 21;4:5. PMID: **17313687**

Article Published Date: Feb 21, 2007

Authors: Weihua Zhou, Purna Mukherjee, Michael A Kiebish, William T Markis, John G Mantis, Thomas N Seyfried

Study Type: In Vitro Study

Additional Links

Diseases: Astrocytoma : CK(2) : AC(2), Brain Cancer : CK(262) : AC(96), Glioma : CK(137) : AC(46)

Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

The ketogenic diet may work as an immune adjuvant in the glioma microenvironment by reducing immune suppression.


Article Published Date: Dec 31, 2015

Authors: Danielle M Lussier, Eric C Woolf, John L Johnson, Kenneth S Brooks, Joseph N Blattman, Adrienne C Scheck

Study Type: Animal Study

Additional Links

Diseases: Glioma : CK(137) : AC(46)

Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

Pharmacological Actions: Immunomodulatory : CK(1005) : AC(201), Immunostimulatory : CK(146) : AC(35)
Glucose Transporter 1 Deficiency Syndrome (AC 1) (CK 10)

**Treatment with ketogenic diet resulted in a marked improvement in seizures and cognitive functions.**


**Article Published Date**: Sep 30, 2015

**Authors**: Hakan Gumus, Ayşe Kaçar Bayram, Fatih Kardas, Mehmet Canpolat, Ahmet Okay Çağlayan, Sefer Kumandas, Mustafa Kendirci, Huseyin Per

**Study Type**: Human Study

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Gluten Sensitivity (AC 1) (CK 3)

**Autism and Dietary Therapy: Case Report and Review of the Literature.**

**Pubmed Data**: J Child Neurol. 2013 May 10. Epub 2013 May 10. PMID: 23666039

**Article Published Date**: May 09, 2013

**Authors**: Martha R Herbert, Julie A Buckley

**Study Type**: Human: Case Report

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**Therapeutic Actions**

**Dietary Modification**: Low Carbohydrate/Ketogenic

**Pharmacological Actions**: Anticonvulsants

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**Problem Substances**: Casein, Wheat
**Head and Neck Cancer (AC 1) (CK 10)**

The ketogenic diet led to a decline in the lactate concentration in tumor tissue.


**Article Published Date**: Dec 31, 2012

**Authors**: U Schroeder, B Himpe, R Pries, R Vonthein, S Nitsch, B Wollenberg

**Study Type**: Human Study

**Additional Links**

**Diseases**: Head and Neck Cancer: CK(111) : AC(14)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249) : AC(43)

**Pharmacological Actions**: Chemotherapeutic: CK(305) : AC(108)

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**Headache: Migraine (AC 1) (CK 10)**

A ketogenic diet could help reduce the frequency of migraine attacks.


**Article Published Date**: Dec 31, 2015

**Authors**: Cherubino Di Lorenzo, Gianluca Coppola, Martina Bracaglia, Davide Di Lenola, Maurizio Evangelista, Giulio Sirianni, Paolo Rossi, Giorgio Di Lorenzo, Mariano Serra, Vincenzo Parisi, Francesco Pierelli

**Study Type**: Human Study

**Additional Links**

**Diseases**: Headache: Migraine: CK(640) : AC(74)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249) : AC(43)

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**Heart Disease: Ischemic (AC 1) (CK 2)**
**A low carbohydrate ketogenic diet is cardioprotective following global ischemic injury.**


**Article Published Date**: Aug 01, 2007

**Authors**: Naji S Al-Zaid, Hussein M Dashti, Thazhumpal C Mathew, Jaspir S Juggi

**Study Type**: Animal Study

**Diseases**: Heart Disease: Ischemic: CK(155) : AC(20)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249) : AC(43)

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**Hepatic Steatosis (AC 1) (CK 10)**

**A low-carbohydrate, ketogenic diet improves fatty liver disease.**


**Article Published Date**: Feb 01, 2007

**Authors**: David Tendler, Sauyu Lin, William S Yancy, John Mavropoulos, Pam Sylvestre, Don C Rockey, Eric C Westman

**Study Type**: Human Study

**Diseases**: Fatty Liver: CK(540) : AC(127), Hepatic Steatosis: CK(104) : AC(21), Liver: Fatty: CK(844) : AC(193)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249) : AC(43)

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**Huntington Disease (AC 1) (CK 2)**

**A ketogenic diet delays weight loss and does not impair working memory or motor function in the mouse model of Huntington's disease.**
Hyperinsulinism (AC 1) (CK 3)

The ketogenic diet could represent an effective treatment to support brain function in selected cases of congenital hyperinsulinism.

Pubmed Data : Orphanet J Rare Dis. 2015 ;10(1):120. Epub 2015 Sep 24. PMID: 26399329
Article Published Date : Dec 31, 2014
Authors : Arianna Maiorana, Lucilla Manganozzi, Fabrizio Barbetti, Silvia Bernabei, Giorgia Gallo, Raffaella Cusmai, Stefania Caviglia, Carlo Dionisi-Vici
Study Type : Human: Case Report
Additional Links
Diseases : Congenital Disorders : CK(3) : AC(1), Hyperinsulinism : CK(251) : AC(56), Seizures : CK(148) : AC(33)
Therapeutic Actions : Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)
Additional Keywords : Significant Treatment Outcome : CK(2720) : AC(334)

Infantile Spasms (AC 1) (CK 10)

The ketogenic diet has significant therapy value in treating drug-resistant childhood epilepsy.

Article Published Date : Sep 01, 2010
Kidney Stones (AC 1) (CK 10)

Potassium citrate reduces kidney-stone incidence in children treated with a ketogenic diet for intractable epilepsy.


Lennox-Gastaut Syndrome (AC 1) (CK 10)

The ketogenic diet has significant therapy value in treating drug-resistant childhood epilepsy.

Liver: Fatty (AC 1) (CK 10)

A low-carbohydrate, ketogenic diet improves fatty liver disease.

Article Published Date: Feb 01, 2007
Authors: David Tendler, Sauyu Lin, William S Yancy, John Mavropoulos, Pam Sylvestre, Don C Rockey, Eric C Westman
Study Type: Human Study
Additional Links
Diseases: Fatty Liver: CK(540) : AC(127), Hepatic Steatosis: CK(104) : AC(21), Liver: Fatty: CK(844) : AC(193)
Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

Metabolic Diseases (AC 1) (CK 10)

The ketogenic diet was beneficial for patients with GLUT-1 deficiency syndrome.

Article Published Date: Jan 13, 2016
Authors: Hannah R Kass, S Parrish Winesett, Stacey K Bessone, Zahava Turner, Eric H Kossoff
Study Type: Human Study
Additional Links
Diseases: Epilepsy: CK(244) : AC(60), Metabolic Diseases: CK(308) : AC(3)
Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)
**Mitochondrial Diseases (AC 1) (CK 1)**

The ketogenic diet may have therapeutic value in neuromuscular and neurodegenerative Diseases.


**Article Published Date** : Dec 31, 2013

**Authors** : Antonio Paoli, Antonino Bianco, Ernesto Damiani, Gerardo Bosco

**Study Type** : Review

**Additional Links**

**Diseases** : Alzheimer's Disease : CK(1677) : AC(168), Amyotrophic lateral sclerosis (ALS) : CK(547) : AC(132), Mitochondrial Diseases : CK(157) : AC(57), Neurodegenerative Diseases : CK(3308) : AC(816), Parkinson's Disease : CK(918) : AC(85)

**Therapeutic Actions** : Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

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**Multiple Sclerosis: Relapsing-Remitting (AC 1) (CK 2)**

A diet mimicking fasting promotes regeneration and reduces autoimmunity and multiple sclerosis symptoms.


**Article Published Date** : Jun 06, 2016

**Authors** : In Young Choi, Laura Piccio, Patra Childress, Bryan Bollman, Arko Ghosh, Sebastian Brandhorst, Jorge Suarez, Andreas Michalsen, Anne H Cross, Todd E Morgan, Min Wei, Friedemann Paul, Markus Bock, Valter D Longo

**Study Type** : Animal Study

**Additional Links**

**Diseases** : Autoimmune Diseases : CK(6200) : AC(880), Multiple Sclerosis: Relapsing-Remitting : CK(92) : AC(1)

**Therapeutic Actions** : Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)
Narcolepsy (AC 1) (CK 10)

A low-carbohydrate, ketogenic reduces narcolepsy symptoms.

Article Published Date: Jun 22, 2004
Authors: A M Husain, W S Yancy, S T Carwile, P P Miller, E C Westman
Study Type: Human Study
Additional Links
Diseases: Narcolepsy: CK(21) : AC(3)
Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic : CK(315) : AC(52)

Neuroblastoma (AC 1) (CK 1)

Dietary manipulation through the elimination of glucose and/or a ketogenic diet may be therapeutic in the treatment of brain cancer.

Article Published Date: Jan 01, 2009
Authors: Robert Skinner, Angelica Trujillo, Xiaojie Ma, Elizabeth A Beierle
Study Type: In Vitro Study
Additional Links
Diseases: Brain Cancer: CK(262) : AC(96), Neuroblastoma: CK(51) : AC(31)
Therapeutic Actions: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)
The ketogenic diet may have therapeutic value in neuromuscular and neurodegenerative Diseases.


**Article Published Date**: Dec 31, 2013

**Authors**: Antonio Paoli, Antonino Bianco, Ernesto Damiani, Gerardo Bosco

**Study Type**: Review

**Additional Links**

**Diseases**: Alzheimer's Disease: CK(1677) : AC(168), Amyotrophic lateral sclerosis (ALS) : CK(547) : AC(132), Mitochondrial Diseases : CK(157) : AC(57), Neurodegenerative Diseases : CK(3308) : AC(816), Parkinson's Disease : CK(918) : AC(85)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

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The ketogenic diet may have value in ALS.


**Article Published Date**: Jun 30, 2011

**Authors**: Sergiusz Jóźwiak, Eric H Kossoff, Katarzyna Kotulska-Jóźwiak

**Study Type**: Review

**Additional Links**

**Diseases**: Amyotrophic lateral sclerosis (ALS) : CK(547) : AC(132), Neurodegenerative Diseases : CK(3308) : AC(816)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

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Overview of studies using ketogenic diets to treat various neurological disorders.


**Article Published Date**: Dec 31, 2011

**Authors**: Carl E Stafstrom, Jong M Rho
The ketogenic diet compensates for AGC1 deficiency and improves myelination.

**Pubmed Data**: Epilepsia. 2015 Sep 24. Epub 2015 Sep 24. PMID: [26401995](#)

**Article Published Date**: Sep 23, 2015

**Authors**: Maria Dahlin, Daniel A Martin, Zandra Hedlund, Monica Jonsson, Ulrika von Döbeln, Anna Wedell

**Study Type**: Human: Case Report


**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249): AC(43)

**Pharmacological Actions**: Neuroprotective Agents: CK(2168): AC(1013)

**Additional Keywords**: Significant Treatment Outcome: CK(2720): AC(334)

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**Parkinson's Disease (AC 3) (CK 13)**

A ketogenic diet has anticonvulsant and neuroprotective effects.

**Pubmed Data**: Przegl Lek. 2010;67(3):205-12. PMID: [20687386](#)

**Article Published Date**: Jan 01, 2010

**Authors**: Tomasz Choragiewicz, Iwona Zarnowska, Maciej Gasior, Tomasz Zarnowski

**Study Type**: Human Study

**Diseases**: Parkinson's Disease: CK(918): AC(85)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249): AC(43)

**Pharmacological Actions**: Anticonvulsants: CK(216): AC(30), Neuroprotective Agents: CK(2127): AC(919)

---

The ketogenic diet may have therapeutic value in neuromuscular and neurodegenerative Diseases.
**The ketogenic diet was neuroprotective and anti-inflammatory against MPTP-neurotoxicity.**


**Article Published Date**: Sep 30, 2010

**Authors**: Xinxin Yang, Baohua Cheng

**Study Type**: Animal Study

**Additional Links**

- **Diseases**: Alzheimer's Disease: CK(1677) : AC(168), Amyotrophic lateral sclerosis (ALS): CK(547) : AC(132), Mitochondrial Diseases: CK(157) : AC(57), Neurodegenerative Diseases: CK(3308) : AC(816), Parkinson's Disease: CK(918) : AC(85)
- **Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)

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**Prostate Cancer (AC 1) (CK 2)**

**A low carbohydrate/ketogenic diet inhibits prostate cancer progression in an animal model.**


**Article Published Date**: Mar 06, 2012

**Authors**: Howard S Kim, Elizabeth M Masko, Susan L Poulton, Kelly M Kennedy, Salvatore V Pizzo, Mark W Dewhirst, Stephen J Freedland

**Study Type**: Transgenic Animal Study

**Additional Links**

- **Diseases**: Prostate Cancer: CK(1342) : AC(311)
- **Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43)
**Rett Syndrome (AC 1) (CK 10)**

**Calorically restricted diets could be effective in reducing the anxiety and in improving motor behavior in girls with Rett Syndrome.**


**Article Published Date** : Jun 01, 2009

**Authors** : John G Mantis, Christie L Fritz, Jeremy Marsh, Stephen C Heinrichs, Thomas N Seyfried

**Study Type** : Human Study

**Additional Links**

**Diseases** : Autism Spectrum Disorders : CK(1448) : AC(156), Rett Syndrome : CK(20) : AC(2)

**Therapeutic Actions** : Dietary Modification: Low Carbohydrate/Ketogenic : CK(249) : AC(43), Fasting/Caloric Restriction : CK(235) : AC(52)

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**Seizures (AC 5) (CK 29)**

"**Efficacy of the ketogenic diet for intractable seizure disorders: review of 58 cases.**"


**Article Published Date** : Oct 31, 1992

**Authors** : S L Kinsman, E P Vining, S A Quaskey, D Mellits, J M Freeman

**Study Type** : Human: Case Report

**Additional Links**

**Diseases** : Seizures : CK(148) : AC(33)

**Therapeutic Actions** : Dietary Modification: Low Carbohydrate/Ketogenic : CK(315) : AC(52)

**Pharmacological Actions** : Anticonvulsants : CK(216) : AC(30)

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**The ketogenic diet compensates for AGC1 deficiency and improves myelination.**


**Article Published Date** : Sep 23, 2015
The ketogenic diet could represent an effective treatment to support brain function in selected cases of congenital hyperinsulinism.


**Article Published Date**: Dec 31, 2014

**Authors**: Arianna Maiorana, Lucilla Manganozzi, Fabrizio Barbetti, Silvia Bernabei, Giorgia Gallo, Raffaella Cusmai, Stefania Caviglia, Carlo Dionisi-Vici

**Study Type**: Human: Case Report


**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic: CK(249): AC(43)

**Additional Keywords**: Significant Treatment Outcome: CK(2720): AC(334)

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Three to 6 years after initiation, the ketogenic diet had proven to be effective in the control of difficult-to-control seizures in children.


**Article Published Date**: Sep 30, 2001

**Authors**: C Hemingway, J M Freeman, D J Pillas, P L Pyzik

**Study Type**: Human Study

**Diseases**: Seizures: CK(148): AC(33)

**Therapeutic Actions**: Dietary Modification: Low Carbohydrate/Ketogenic: CK(315): AC(52)

**Pharmacological Actions**: Anticonvulsants: CK(216): AC(30)

---

Treatment with ketogenic diet resulted in a marked improvement in seizures and cognitive functions.

### Tuberous Sclerosis (AC 1) (CK 10)

**A ketogenic diet is an effective therapeutic modality for epilepsy associated with tuberous sclerosis in children.**

**Pubmed Data**: Epilepsia. 2005 Oct;46(10):1684-6. PMID: [16190943](#)

**Article Published Date**: Oct 01, 2005

**Authors**: Eric H Kossoff, Elizabeth A Thiele, Heidi H Pfeifer, Jane R McGrogan, John M Freeman

**Study Type**: Human Study

**Pharmacological Actions**: Anticonvulsants: CK(216) : AC(30)

**Diseases**: 
- Epilepsy: Childhood : CK(120) : AC(5)
- Tuberous Sclerosis : CK(20) : AC(2)

**Therapeutic Actions**: 
- Dietary Modification: Low Carbohydrate/Ketogenic : CK(315) : AC(52)

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