



MorphoSaurus - A Modern Multilingual Information Retrieval System in Action

Ulrich Korwitz, German National Library of Medicine, Cologne, Germany



Document Retrieval – The Needs

- Tailored information retrieval systems
- Cross language search capabilities
- Filtering of the relevant information
- Effective ranking
- Offering associative terms
- Direct linking to the fulltext

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4. Berkeley JA, Murtywoki P, Ngama M, Kazungu S, Abwao J, Bett A, Lassaunière R, Kresfelder T, Cane PA, Venter M, Scott JA, Nokes DJ.
JAMA. 2010 May 26;303(20):2051-7.
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5. Sheehy T, Sharma S.
Br J Nutr. 2010 May 26;113(5):711-8. [Epub ahead of print]
PMID: 20500930 [PubMed - as supplied by publisher]
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- [Trends in low birthweight among the Bhutanese refugee population in Nepal.](#)
6. Shrimpton R, Thorne-Lyman A, Tripp K, Tomkins A.
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3. Cortez-Pinto H, Gouveia M, Dos Santos Pinheiro L, Costa J, Borges M, Carneiro AV.
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PMID: 20528821 [PubMed - as supplied by publisher]
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4. Eaton DK, Kann L, Kinchen S, Shanklin S, Ross J, Hawkins J, Harris WA, Lowry R, McManus T, Chyen D, Lim C, Whittle L, Brener ND, Wechsler H, Centers for Disease Control and Prevention (CDC).
MMWR Surveill Summ. 2010 Jun 4;59(5):1-142.
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6. Berkley JA, Munywoki P, Ngama M, Kazungu S, Abwao J, Bett A, Lassaunière R, Kresfelder T, Cane PA, Venter M, Scott JA, Nokes DJ.
JAMA. 2010 May 26;303(20):2051-7.
PMID: 20501927 [PubMed - indexed for MEDLINE]

Linguistic Problems

- Flexions (leucocyte – leucocytes)
- Derivatives (leucocytive)
- Orthographic variants (Oestrogen – Estrogen)
- Synonyms (prevention – prophylaxis)
- Acronyms (AIDS – SARS)
- Compounds (Nierenzellkarzinomerkennung =
Diagnosis of renal cell carcinoma)



„Korrelation von Hypertonie und Läsion der Weißen Substanz“

„Correlation of high blood pressure and lesion of the white substance“

Search Engine

Entrez PubMed - Mozilla

1: Stroke. 2004 May;35(5):1057-60. Epub 2004 Apr 1.

Comment in:

- Stroke. 2004 May;35(5):1061-2.

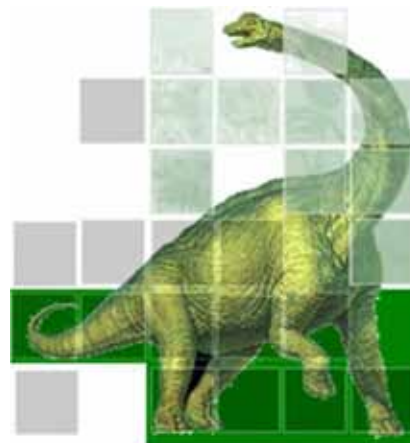
Interaction between hypertension, apoE, and cerebral white matter lesions.

de Leeuw FE, Richard F, de Groot JC, van Duijn CM, Hofman A, Van Gijn J, Breteler MM.

Department of Epidemiology and Biostatistics, Erasmus Medical Center, Rotterdam, The Netherlands.

BACKGROUND AND PURPOSE: Cerebral white matter lesions (WMLs) are frequently found on magnetic resonance imaging scans in both cognitively intact and demented elderly persons. Vascular risk factors, especially hypertension, are related to their presence. However, not every person with vascular risk factors has WMLs, which suggests interaction with other determinants, eg, genetic factors. The epsilon4 allele

MorphoSaurus – the Interlingua Approach



Subword Lexicon:

gastr
stomach

ventric
Chamber

hepat,hepar
liver

itis, inflamm

nephr
ren
kidney

Subword Thesaurus:

Accumulation of synonymic subwords into Equivalent Classes

#GASTR

#CHAMBER

#HEPAR

#INFLAMM

#NEPHR

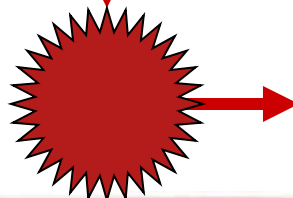
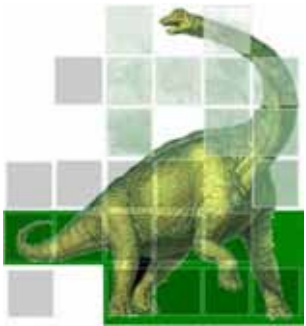
MorphoSaurus



„Korrelation von Hypertonie und Läsion der Weißen Substanz“



„#correl #hyper #tens #lesion #whit #matter“



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1: Stroke. 2004 May;35(5):1057-60. Epub 2004 Apr 1.

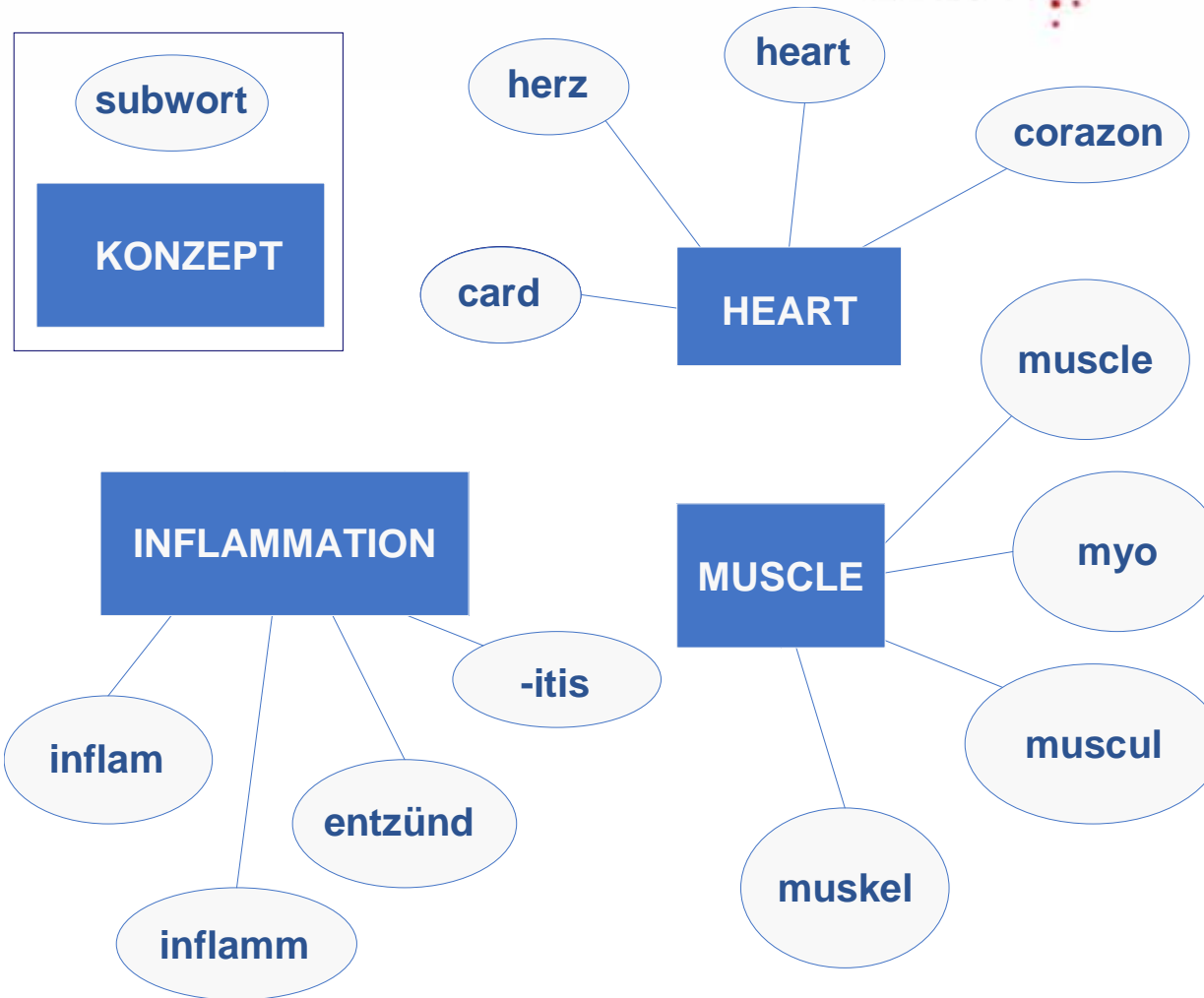
Comment in:
• [Stroke. 2004 May;35\(5\):1061-2.](#)

#interact #hyper #tens , apoe , #cerebr #whit #matter #lesion .

de leeuw fe , richard f , de groot jc , van duijn cm , hofman a , van gijn j , breteler mm .

#department #epidem #logic #bio #statist , erasmus #medic #centr , rotterdam , #dutch .

#back #ground #purpos : #cerebr #whit #matter #lesion (wmls) #frequent #find #magnet #resonanc #imag #scan #both #cognit #intact #dement #gero #human . #vascul #risk #factor , #special #hyper #tens , #relat #presenc . #not #total #human #vascul #risk #factor wmls ,# suggest #interact #other #determin, eg ,



Orthographic Normalization <i>Normalization Rules</i>		Morphosyntactic Parser <i>Subword Lexicon</i>		Semantic Normalization <i>Subword Thesaurus</i>	
High TSH values suggest the diagnosis of primary hypothyroidism	→ → →	high tsh values suggest the diagnosis of primary hypothyroidism	→ → →	high tsh values suggest the diagnos is of primar y hypo thyroid ism	→ #up tsh #value #suggest → #diagnost #first #small → #thyre
Erhöhte TSH-Werte erlauben die Diagnose einer primären Hypothyreose		erhoehte tsh-werte erlauben die diagnose einer primaeren hypothyreose		er hoeh te tsh wert e erlaub en die diagnose e einer primae ren hypo thyre ose	#up tsh #value #permit #diagnost #first #small #thyre
A presença de valores elevados de TSH sugere o diagnóstico de hipotireoidismo primário		a presenca de valores elevados de tsh sugere o diagnostico de hipotireoidismo primario		a presenc a de valor es elevad os de tsh suger e o diagnost ico de hipo tireoid ismo primary o	#current tsh #value #up tsh #suggest #diagnost #small #thyre #first

Optimisation – Quality Management

- Precision: Relevance of search results
- Recall: Completeness of search results
- Ranking: Relevant hits are displayed first

Precision and Recall

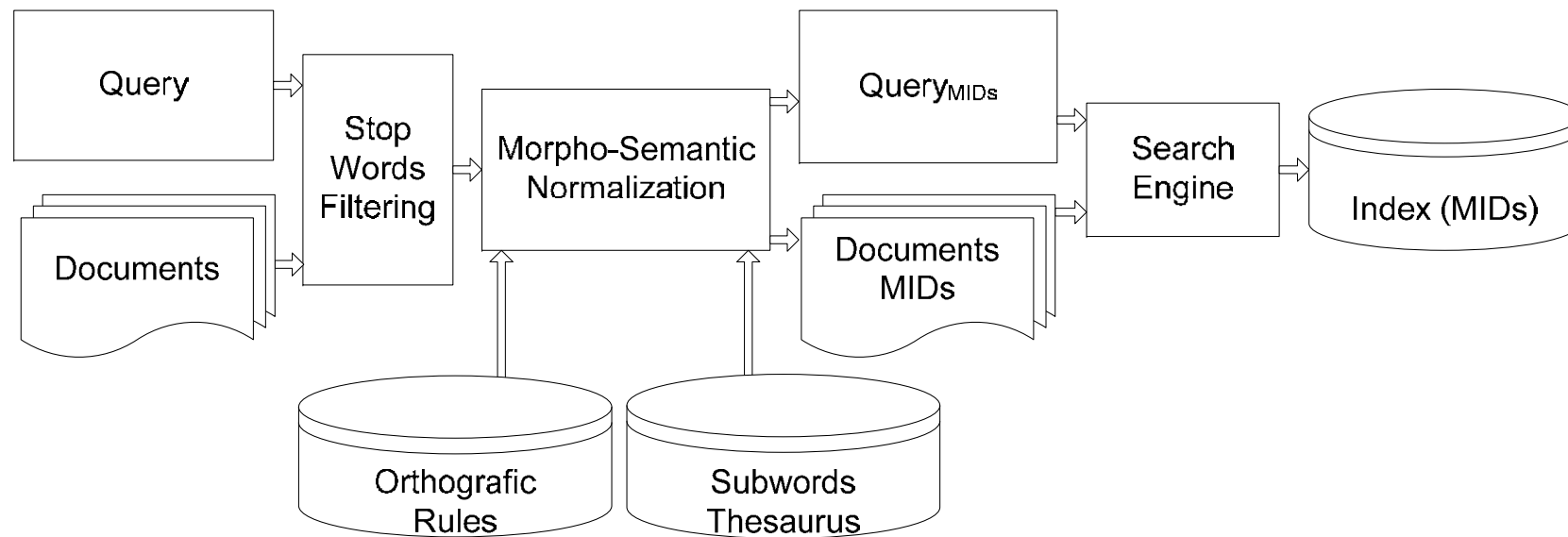
„searcher.mode.default = TITLE“

Search term must be present in the Title Field

Ranking

„searcher.mode.default = TITLE ^ 4 . KEYWORDS ^ 2 , TEXT“

Search terms in Title Field are weighted 4 times higher than search terms in Keywords Field (2 x) and search terms in the Text Field (1 x)



The MorphoSaurus Architecture

MEDPILOT with MorphoSaurus

	MEDPILOT 3.0 (MorphoSaurus)	MEDPILOT 2.0 (Metasearch)
MEDLINE	P5 = 59,60% ← 19,01% → P5 = 40,53% P10 = 57,94% ← 21,10% → P10 = 36,84% P15 = 57,15% ← 22,79% → P15 = 34,36% P20 = 56,20% ← 23,18% → P20 = 33,00%	
CC MED	P5 = 60,90% ← 15,47% → P5 = 45,43% P10 = 57,40% ← 16,58% → P10 = 40,81% P15 = 54,66% ← 16,32% → P15 = 38,34% P20 = 52,70% ← 16,30% → P20 = 36,40%	

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Krankheit

Herz-Kreislauf-Krankheiten

1 Blood-positive illicit-drug findings: implications for **cause-of-death** certification, classification and coding.

Lahti, R A ; Korpi, H ; Vuori, E

Forensic science international

2009 Band 187, Heft 1-3, Seite(n) 14-18

National **cause-of-death** data are important for national health ... of compiling **mortality statistics** starts with determination of **causes** of...

Merkliste Langanzeige MEDLINE

2 Evaluation of **cause-of-death statistics** for Brazil, 2002-2004.

França, Elisabeth ; de Abreu, Daisy Xavier ; Rao, Chalapati ; Lopez, Alan D

International journal of epidemiology

2008 Band 37, Heft 4, Seite(n) 891-901

BACKGROUND: **Mortality statistics** systems with reliable **cause-of-death** data constitute a major resource for effective health planning, however...

Merkliste Langanzeige MEDLINE



3 Validation of **cause-of-death statistics** in urban China.

Rao, Chalapati ; Yang, Gonghuan ; Hu, Jianping ; Ma, Jiemin ; Xia, Wan ; Lopez, Alan D

International journal of epidemiology

2007 Band 36, Heft 3, Seite(n) 642-651

... source of **cause** specific **mortality statistics**, and require periodic validation to guide use of ... validation of **cause of death**...

Merkliste Langanzeige MEDLINE



4 Quality of **cause-of-death** statements and its impact on infant **mortality statistics** in Hermosillo, Mexico.



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Herz-Kreislauf-Krankheiten	
Suizid	
Mvokardinfarkt	

1 Blood-positive illicit-drug findings: implications for cause-of-death certification, classification and coding.

Lahti, R A ; Korpi, H ; Vuori, E
Forensic science international
2009 Volume 187, Issue 1-3, Page(s) 14-18
National cause-of-death data are important for national health ... of compiling mortality statistics starts with determination of causes of...
 Bookmarks [Full record](#) [MEDLINE](#)

2 Global and regional causes of death.

Mathers, Colin D ; Boerma, Ties ; Ma Fat, Doris
British medical bulletin
2009 Volume 92, Page(s) 7-32
... Assessing the causes of death across all regions of the... numbers of deaths and their cause distributions. This paper ...
 Bookmarks [Full record](#) [MEDLINE](#) **EZI**

3 Evaluation of cause-of-death statistics for Brazil, 2002-2004.

França, Elisabeth ; de Abreu, Daisy Xavier ; Rao, Chalapati ; Lopez, Alan D
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BACKGROUND: Mortality statistics systems with reliable cause-of-death data constitute a major resource for effective health planning; however, ...
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4 Deaths: leading causes for 2005.

Heron, Melonie ; Tejada-Vera, Betzaida
National vital statistics reports : from the Centers for Disease Control and Prevention. National Center for Health Statistics. National Vital Statistics Syst

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1. [HIV-1 Nef triggers macrophage fusion in a p61Hck- and protease-dependent manner.](#)
Vérollet C, Zhang YM, Le Cabec V, Mazzolini J, Charrière G, Labrousse A, Bouchet J, Medina I, Biessen E, Niedergang F, Bénichou S, Maridonneau-Parini I.
J Immunol. 2010 Jun 15;184(12):7030-9. Epub 2010 May 19.
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2. [Matrix architecture dictates three-dimensional migration modes of human macrophages: differential involvement of proteases and podosome-like structures.](#)
Van Goethem E, Poincloux R, Gauffre F, Maridonneau-Parini I, Le Cabec V.
J Immunol. 2010 Jan 15;184(2):1049-61. Epub 2009 Dec 16.
PMID: 20018633 [PubMed - indexed for MEDLINE]
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3. [Three-dimensional migration of macrophages requires Hck for podosome organization and extracellular matrix proteolysis.](#)
Cougoule C, Le Cabec V, Poincloux R, Al Saati T, Mège JL, Tabouret G, Lowell CA, Laviolette-Malirat N, Maridonneau-Parini I.
Blood. 2010 Feb 18;115(7):1444-52. Epub 2009 Nov 6.
PMID: 19897576 [PubMed - indexed for MEDLINE]
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4. [The oncogenic activity of the Src family kinase Hck requires the cooperative action of the plasma membrane- and lysosome-associated isoforms.](#)
Poincloux R, Al Saati T, Maridonneau-Parini I, Le Cabec V.
Eur J Cancer. 2009 Feb;45(3):321-7. Epub 2008 Dec 26.
PMID: 19114024 [PubMed - indexed for MEDLINE]
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5. [Hematopoietic cell kinase \(Hck\) isoforms and phagocyte duties - from signaling and actin reorganization to migration and phagocytosis.](#)
Guiet R, Poincloux R, Castandet J, Marois L, Labrousse A, Le Cabec V, Maridonneau-Parini I.
Exp Cell Res. 2008 Oct;334(10):2071-81. Epub 2008 Aug 5. PMID: 18711111 [PubMed - indexed for MEDLINE]
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German 305

French 179

Spanish 95

Japanisch 83

Italian 65

Russian 52

Polish 41

more >

1 11 21 31 41 51 61 71 81 91 101 >

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1 The role of **myofascial** trigger points in **musculoskeletal pain** syndromes of the **head** and neck.

Fernández-de-Las-Peñas, César ; Simons, David ; Cuadrado, Maria Luz ; Pareja, Juan

Current pain and headache reports

2007 Volume 11, Issue 5, Page(s) 365-372

Neck and **head pain** syndromes are common problems seen in clinical practice. **Pain** features of... idiopathic neck **pain** and sc

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2 **Migraine** prophylaxis with botulinum toxin A is associated with perception of **headache**.

Burstein, Rami ; Dodick, David ; Silberstein, Stephen

Toxicon : official journal of the International Society on Toxinology

2009 Volume 54, Issue 5, Page(s) 624-627

...A) on **migraine** frequency is... of the **pain** and its **directionality**, namely, exploding, ... or ocular **migraine headache**. ...

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3 **Myalgia** in familial Mediterranean fever = Myalgies au cours d'une fièvre méditerranéenne familiale

Concluído

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http://www.medpilot.de/app/search/search/4b574b0350522498f8a97ee765e74892?FS=cabec+algia

leucocytic - PubMed result

LEO Deutsch-Englisches Wörterbuch "6...

MEDPILOT - Search results - cabe...

Sinus **headache** is not a ... and secondary **headache** disorder. ... a primary **headache** disorder, ... have sinus **headache** indeed have...

Bookmarks [Full record](#) [MEDLINE](#)


7 **Diagnosis and development of screening items for migraine in neurological practice in Taiwan.**

Wang, Shuu-Jiun ; Fuh, Jong-Ling ; Huang, San-Yong ; Yang, Sheng-Shan ; Wu, Zin-An ; Hsu, Chang-Hung ; Wang, Chi-Hong ; Yu, Hsiang-Yu ; Wang, Po-Jen ; Fu, C H ; Chen, C H ; Chen, J J ; Fang, S C ; ...

Journal of the Formosan Medical Association = Taiwan yi zhi

2008 Volume 107, Issue 6, Page(s) 485-494

...1) survey **migraine** diagnoses among... compare neurologists' **migraine** diagnoses with... Classification of **Headache** Disorders 2nd... a patient **migraine** questionnaire. ...

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8 **Headache in the elderly = Kopfschmerzen im Alter**

Reinisch, V M ; Schankin, C J ; Felbinger, J ; Sostak, P ; Straube, A

Schmerz (Berlin, Germany)

2008 Volume 22 Suppl 1, Page(s) 22-30

Chronic **headache** is still a ... of primary **headache** decreases with... of secondary **headache** increases.... characteristics of **migraine** can also...

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9 **Cervical mobility in women with migraine.**

Bevilaqua-Ginesi, Debora ; Pegoretti, Katia S ; Goncalves, Maria C ; Speciali, José G ; Bordini, Carlos A ; Bigal, Marcelo E

Headache

2009 Volume 49, Issue 5, Page(s) 726-731

... with episodic **migraine** (EM), transformed **migraine** (TM),... controls without **migraine headaches**. BACKGROUND: Migraineurs often complain about...

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10 **Does early migraine treatment shorten time to headache peak and reduce its severity?**

Hu, X Henry ; Ng-Mak, Daisy ; Cady, Roger

Headache

2008 Volume 48, Issue 6, Page(s) 914-920

... duration of **headache** from **headache** onset to its peak and reduce **headache** severity at peak... focused on **headache** relief after...

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Conditions

- Kidney Failure, Chronic
- Kidney Failure, Acute
- Kidney Tubular Necrosis, Acute

1 Evaluation of serum cardiac troponin I concentration in dogs with renal failure.

Sharkey, Leslie C ; Berzina, Inese ; Ferasin, Luca ; Tobias, Anthony H ; Lulich, Jody P ; Hegstad-Davies, Rebecca L
 Journal of the American Veterinary Medical Association
 2009 Volume 234, Issue 6, Page(s) 767-770
 ... dogs with renal failure have higher... dogs with renal failure and 51 healthy dogs. PROCEDURES:... or other nonrenal disease was...
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2 Obesity is associated with increased morbidity after coronary artery bypass graft surgery in patients with renal insufficiency.

Tolpin, Daniel A ; Collard, Charles D ; Lee, Vei-Vei ; Elayda, Macarthur A ; Pan, Wei
 The Journal of thoracic and cardiovascular surgery
 2009 Volume 138, Issue 4, Page(s) 873-879
 ... obesity and renal insufficiency are associated with increased systemic inflammation... obesity and renal insufficiency might thus be at greater risk...
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3 Risk factors of acute renal failure in critically ill children: A prospective descriptive epidemiological study.

Bailey, Dennis ; Phan, Véronique ; Litalien, Catherine ; Ducruet, Thierry ; Mérouani, Aicha ; Lacroix, Jacques ; Gauvin, France
 Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies
 2007 Volume 8, Issue 1, Page(s) 29-35
 OBJECTIVE: Acute renal failure is a serious condition in critically... on acute renal failure in critically ill children. The ...
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4 Trends in acute renal failure associated with coronary artery bypass graft surgery in the United States.

Swaminathan, Madhav ; Shaw, Andrew D ; Phillips-Bute, Barbara G ; McGugan-Clark, Patricia L ; Archer, Laura E ; Talbert, Steven ; Milano, Carmelo A ; Patel, Uptal ; Stafford-Smith, Mark
 Critical care medicine

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1 **Attack on cholesterol**

Hoffer, W.

Weight watchers (USA)

(Feb 1986) Volume v. 19, Issue (1), Page(s) p. 52-53

...and increased risk of coronary **heart** disease. Facts are presented...morbidity and mortality rates of **heart** disease, and measures of **prevention**. References are given for further information.(Isp)...

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2 **Avoiding a heart attack: diet, drugs or both?**

Sacks, F. (Harvard School of Public Health.)

Nutrition action health letter (USA)

(Jan-Feb 1997) Volume v. 24, Issue (1), Page(s) p. 4-7

.... He recommends drug treatment for patients who have had **heart attacks**...

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Next Step: Textmining

- Fulltexts instead of metadata
- Open Access texts first
- Followed by locally available texts

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