

# Mobile Delivery of Content: KoreaMed & Synapse Approaches

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Information Management Committee, KAMJE

# Agenda

- What is KoreaMed & Synapse?
- What we thought about mobile services
- What we have done: Before & After
- Trials & Errors
- Future Plans/Remarks

A case study, an interim progress report.

# WHAT IS KOREAMED & SYNAPSE?

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Go

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Limits

## About KoreaMed

Overview  
Help  
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## KoreaMed Services

Basic Search  
Journal Browser  
Advanced Search  
Limits



Korean Medical  
Journal Information

- Enter one or more search terms.
- Enter author names as hong kd. Initials are optional.
- Enter journal titles in full or as MEDLINE abbreviations. Use the [Journal Browser](#) to find journal titles.

**KoreaMed**, a service of the Korean Association of Medical Journal Editors (KAMJE), provides access to articles published in Korean medical journals. Its current coverage is focused on the literature published since 1997. KoreaMed includes links to many sites providing full text articles.

### KoreaMed LinkOut

**KoreaMed LinkOut** is a feature to provide users with links from KoreaMed to relevant Korean medical journal websites providing full text articles.

### KoreaMed Retro

**KoreaMed Retro** is an extended service to provide access to articles published in Korean medical journals before 1997. To participate in KoreaMed Retro, editors should submit XML files confirming to KoreaMed DTD to KAMJE.

### KoreaMed Central

**KoreaMed Central** is to assist journal publishers to establish and maintain websites providing full-text journals online. Please contact KAMJE to participate in this program.

**MeSH** terms assigned to KoreaMed records are taken, in part, from Korean Index Medicus published by Korea Medical Library Association.

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The gateway to articles published in Korean medical journals

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Clear

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KoreaMed

KoMCI Korean Medical Citation Index

KOREAN ASSOCIATION OF MEDICAL JOURNAL EDITORS

WORLDS WIDESCENCE.ORG The Global Science Gateway

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CROSSREF.ORG THE CITATION LINKING BACKBONE

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Synapse Journals

Find Journals

Search by part or all of a journal name

As of October 03, 2010, there are 80 journals.

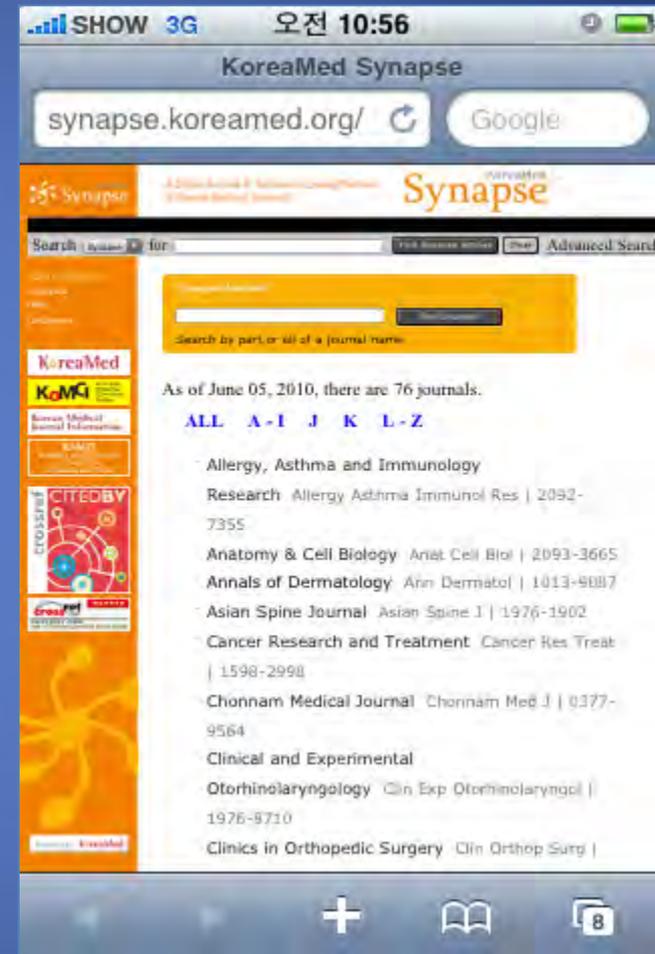
- Anatomy & Cell Biology Anat Cell Biol | 2093-3665
- Annals of Dermatology Ann Dermatol | 1013-9087
- Asian Spine Journal Asian Spine J | 1976-1902
- Cancer Research and Treatment Cancer Res Treat | 1598-2998
- Chonnam Medical Journal Chonnam Med J | 0377-9564
- Clinical and Experimental Otorhinolaryngology Clin Exp Otorhinolaryngol | 1976-8710
- Clinics in Orthopedic Surgery Clin Orthop Surg | 2005-291X
- Electrolyte & Blood Pressure Electrolyte Blood Press | 1738-5997 - now published as Electrolytes & Blood Pressure Electrolytes Blood Press | 1738-5997
- Electrolytes & Blood Pressure Electrolytes Blood Press | 1738-5997
- Endocrinology and Metabolism Endocrinol Metab | 2093-596X
- Epidemiology and Health Epidemiol Health | 2092-7193

The digital archive &amp; reference linking platform of Korean medical journals

Since August 16th 2010



Before August 16th 2010



# KoreaMed & Synapse

- Databases provided by KAMJE  
Korean Association of Medical Journal Editors  
ICSTI (International Council for Scientific and Technical Information)  
member organization
- Cover Korean medical journals
- All information in English
- All information Free/Open Access
- Included in WorldWideScience.org  
operated by ICSTI

## KoreaMed

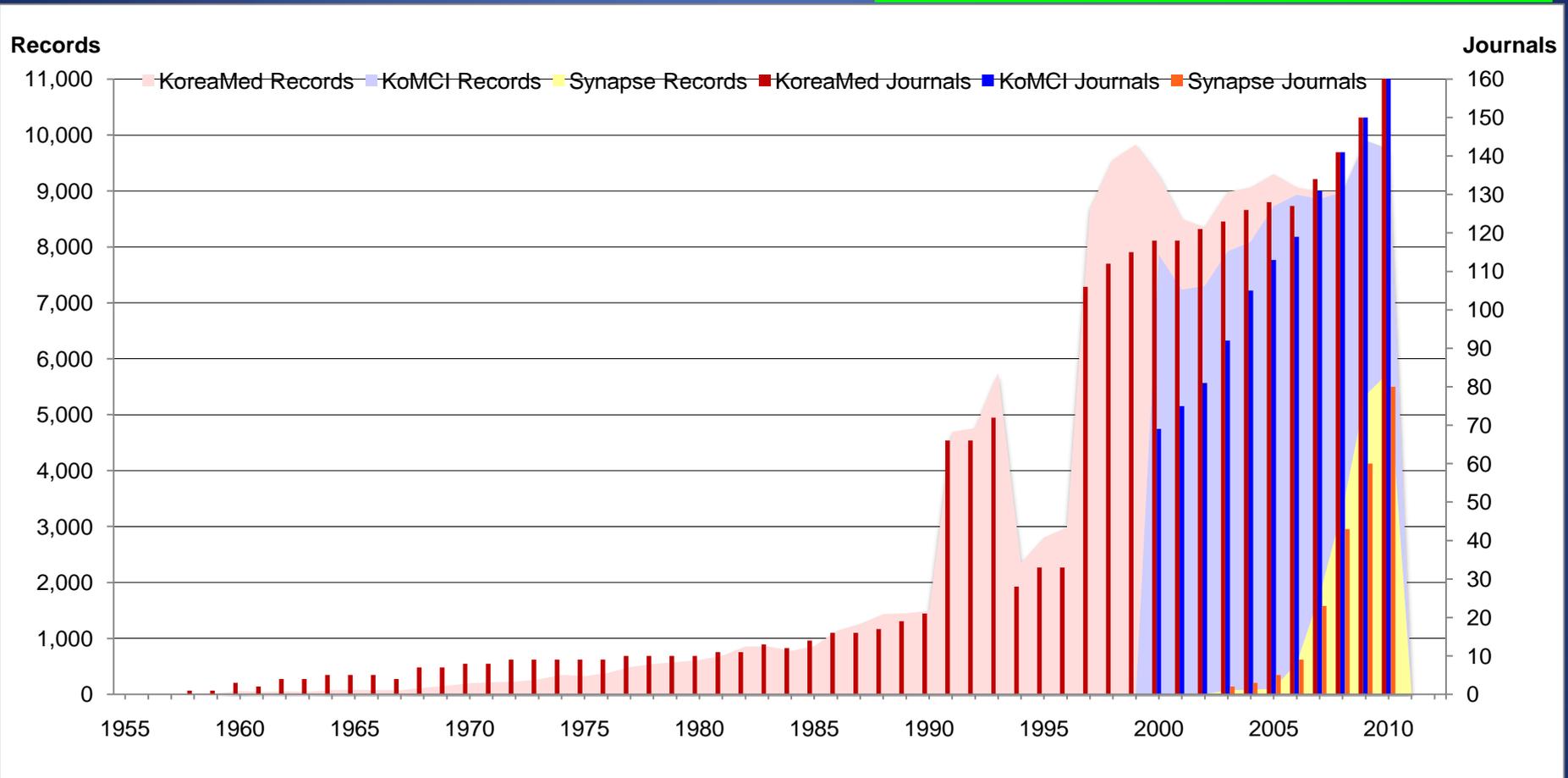
### d

- Since 1997
- Abstracts
- PubMed equivalent
- PubMed XML compatible
- 164 journals
- Over 170,000 records
- LinkOut to Synapse & Journal web sites
- CrossRef/DOI linking
- Cited-by (CrossRef KoMCI) linking

## Synapse

- Since 2007
- Full texts
- PMC equivalent
- PMC XML compatible
- 80 journals
- Over 20,000 records
- LinkOut to KoreaMed & Journal web sites
- DOI linking platform
- Cited-by (CrossRef KoMCI) linking

Growth at the rate of :  
 KoreaMed: 10,000 abstracts/yr  
 Synapse: 6,000 full texts/yr



# WHAT WE THOUGHT ABOUT MOBILE SERVICES

# Analysis of a typical user

- Brief/informal survey of
  - Journal editors/MDs/Librarians
  - Sophisticated/unsophisticated searchers of medical databases in PC environments
  - Usually not early adaptors
- “I feel very uncomfortable typing in mobile phone.”
- “I’d rather tap, tap, tap links (icons, hypertexts).”

- “Letters are too small.”
- “I’d rather use a mobile phone in Portrait mode than Landscape mode.”  
(Only a few lines are displayed to view in landscape mode.)
- “It is easy, especially because it is the same search interface that I’ve used in PC.”
- “It’s handy.”
- “It’s fun.”

# Major Drawbacks of Mobile Devices

- Small screens
- Typing  
awkward/inconvenient/uncomfortable

# Analysis of Information to be serviced

- Analysis of KoreaMed & Synapse
- Medical information
  - Scholarly information
    - STI (Science and Technology Information)
  - Abstracts, full texts
  - not games, entertainment items
- Information largely in text format with some graphic materials (Tables & Figures)

# Objectives

## KoreaMed & Synapse Mobile Services

- **Medical information!!!**

STI: mainly text info with some graphic materials

- Provide one more way to access databases

Not necessarily an alternative way

- Provide an easy & smooth transition from/to PC Internet environments

- Minimize mobile devices' inconveniences

- Maximize mobile devices' special qualities

# Mobile Service Development Plans

A code of conduct  $*(\wedge\wedge)*$

- Do nothing
  - Enhancements on websites first  
(PC-based internet access environments)
  - Do not want to maintain several versions
- Do minimum
  - Fix apparent problems
  - Mobile specific bugs
- For Mobiles
  - Implement mobile specific features

# Mobile Service Development Plans

Phases 1-4

## 1. Mobile Optimization for Internet Access

- Interface design/Visual design
- Various hypertext links
- Search word/phrase auto completion
- Mobile specific bugs

## 2. Mobile Web (<http://m.koreamed.org>)

## 3. Voice Access/Search

Began implementation with Android phone

## 4. App Service

# Mobile Optimization Keywords

- Minimize typing
  - Various Access Points with “Hypertext links”
  - Search words suggestion via auto completion
  - Voice Access/Search

Endless & Seamless Browsing & Searching  
“Tap, tap, tap”

# Mobile Optimization Keywords

- Design Thinking
  - Minimal Screen Display Layout Designs
    - Efficient/speedy Display
    - Uncluttered looks
    - Page View Expansion Capabilities: Open/Close (+/-) menu
  - Visual accents
    - Compete with plain texts
    - Attractive looks to induce “clicks/taps”
    - Intuitive looks

Intuitive/Attractive/Vivid Visual

# Mobile Optimization Keywords

- Strange Looks on Smart Phone?
  - Mobile specific bugs?
- Voice Access/Search
  - It's a telephone anyway.
  - Voice-to-text-to-search
  - A way of reducing typing

# WHAT WE HAVE DONE: BEFORE & AFTER

# Mobile Service Development Plans

## Phase 1

### 1. Mobile Optimization for Internet Access

- Interface design/Visual design
- Various hypertext links
- Search word/phrase auto completion
- Mobile specific bugs

### 2. Mobile Web (<http://m.koreamed.org>)

### 3. Voice Access/Search

Began implementation with Android phone

### 4. App Service

# Visual enhancements

- Color added to Interface
- Colorful LinkOut icons
  - Search by Browsing functions
- Simplified/ uncluttered looks

# Minimal Layout Designs

- Page view expansion capabilities
  - Open/Close (+/-)
- Simple color schemes
  - Signature Color : **KoreaMed** **Synapse**
  - Use 2 or 3 colors
- Hypertext links (to help user recognition)
  - Underlined with dotted line
  - When your finger (mouse) is over the links, color changes

# Browsing & Searching

- Various Access Points → Hypertext links
  - Publication Type
  - MeSH terms
  - Author Keywords
  - Journal Name
  - DOI
  - Cited-by (KoMCI, Synapse/CrossRef)
  - Authors: not implemented yet  
too much homonyms with Korean author initials
- Journal Browser simplified, and in 2 levels

# Visual enhancements

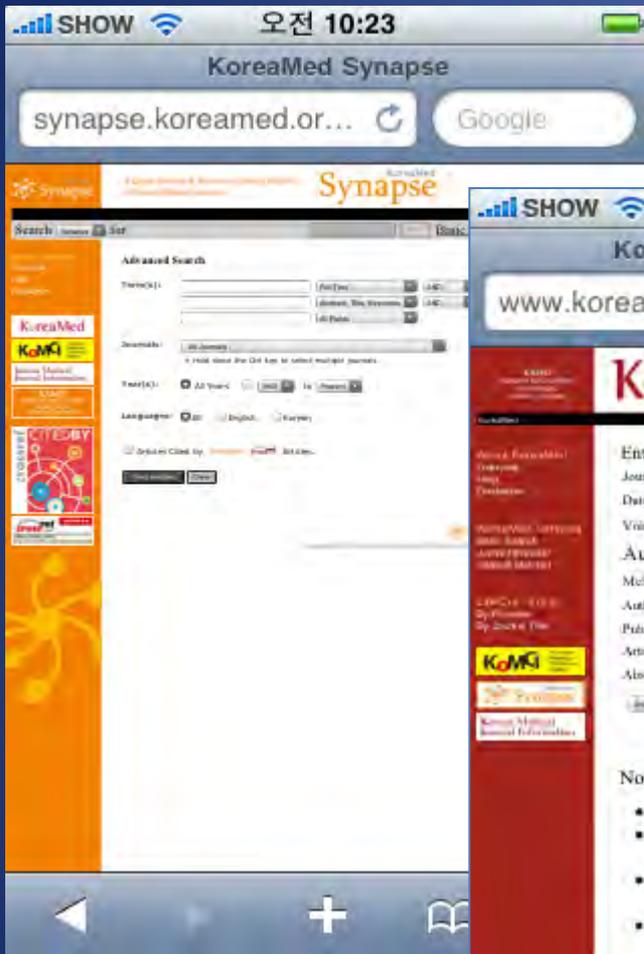
Color accents



# Advanced Search

# Visual enhancements

## Color accents



# Limits

# Visual enhancements

# Color accents



Exactly the same looks:  
PC vs. Mobile displays

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OF MEDICAL  
JOURNAL EDITORS

# KoreaMed

Search KoreaMed for

**Limits**

<b>Year(s)</b> <input checked="" type="radio"/> All Years <input type="radio"/> 1958 to Present	<b>Languages</b> <input type="checkbox"/> English <input type="checkbox"/> Korean
<b>Species</b> <input type="checkbox"/> Humans <input type="checkbox"/> Animals	<b>Gender</b> <input type="checkbox"/> Male <input type="checkbox"/> Female
<b>Type of Article</b> <input type="checkbox"/> Brief Communication <input type="checkbox"/> Case Reports <input type="checkbox"/> Clinical Trial <input type="checkbox"/> Comment <input type="checkbox"/> Comparative Study <input type="checkbox"/> Editorial <input type="checkbox"/> Evaluation Studies <input type="checkbox"/> In Vitro <input type="checkbox"/> Letter <input type="checkbox"/> Meeting Abstract <input type="checkbox"/> Meta-Analysis <input type="checkbox"/> Multicenter Study <input type="checkbox"/> Note <input type="checkbox"/> Original Article <input type="checkbox"/> Practice Guideline <input type="checkbox"/> Published Erratum <input type="checkbox"/> Randomized Controlled Trial <input type="checkbox"/> Review <input type="checkbox"/> Twin Study <input type="checkbox"/> Validation Studies	<b>Ages</b> <input type="checkbox"/> All Infant: birth-23 months <input type="checkbox"/> All Child: 0-18 years <input type="checkbox"/> All Adult: 19+ years <input type="checkbox"/> Newborn: birth-1 month <input type="checkbox"/> Infant: 1-23 months <input type="checkbox"/> Preschool Child: 2-5 years <input type="checkbox"/> Child: 6-12 years <input type="checkbox"/> Adolescent: 13-18 years <input type="checkbox"/> Young Adult: 19-24 years <input type="checkbox"/> Adult: 19-44 years <input type="checkbox"/> Middle Aged: 45-64 years <input type="checkbox"/> Middle Aged + Aged: 45+ years <input type="checkbox"/> Aged: 65+ years <input type="checkbox"/> 80 and over: 80+ years

SHOW 오후 3:49

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www.koreamed.org/Se... Google

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# KoreaMed

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**Limits**

<b>Year(s)</b> <input checked="" type="radio"/> All Years <input type="radio"/> 1958 to Present	<b>Languages</b> <input type="checkbox"/> English <input type="checkbox"/> Korean
<b>Species</b> <input type="checkbox"/> Humans <input type="checkbox"/> Animals	<b>Gender</b> <input type="checkbox"/> Male <input type="checkbox"/> Female
<b>Type of Article</b> <input type="checkbox"/> Brief Communication <input type="checkbox"/> Case Reports <input type="checkbox"/> Clinical Trial <input type="checkbox"/> Comment <input type="checkbox"/> Comparative Study <input type="checkbox"/> Editorial <input type="checkbox"/> Evaluation Studies <input type="checkbox"/> In Vitro <input type="checkbox"/> Letter <input type="checkbox"/> Meeting Abstract <input type="checkbox"/> Meta-Analysis <input type="checkbox"/> Multicenter Study <input type="checkbox"/> Note <input type="checkbox"/> Original Article <input type="checkbox"/> Practice Guideline <input type="checkbox"/> Published Erratum <input type="checkbox"/> Randomized Controlled Trial <input type="checkbox"/> Review <input type="checkbox"/> Twin Study <input type="checkbox"/> Validation Studies	<b>Ages</b> <input type="checkbox"/> All Infant: birth-23 months <input type="checkbox"/> All Child: 0-18 years <input type="checkbox"/> All Adult: 19+ years <input type="checkbox"/> Newborn: birth-1 month <input type="checkbox"/> Infant: 1-23 months <input type="checkbox"/> Preschool Child: 2-5 years <input type="checkbox"/> Child: 6-12 years <input type="checkbox"/> Adolescent: 13-18 years <input type="checkbox"/> Young Adult: 19-24 years <input type="checkbox"/> Adult: 19-44 years <input type="checkbox"/> Middle Aged: 45-64 years <input type="checkbox"/> Middle Aged + Aged: 45+ years <input type="checkbox"/> Aged: 65+ years <input type="checkbox"/> 80 and over: 80+ years

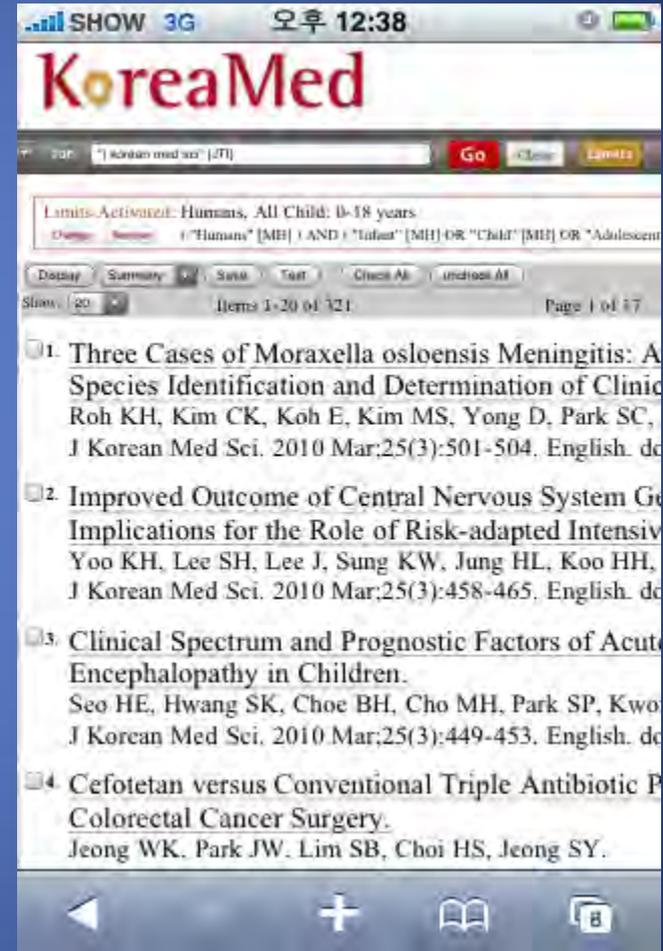
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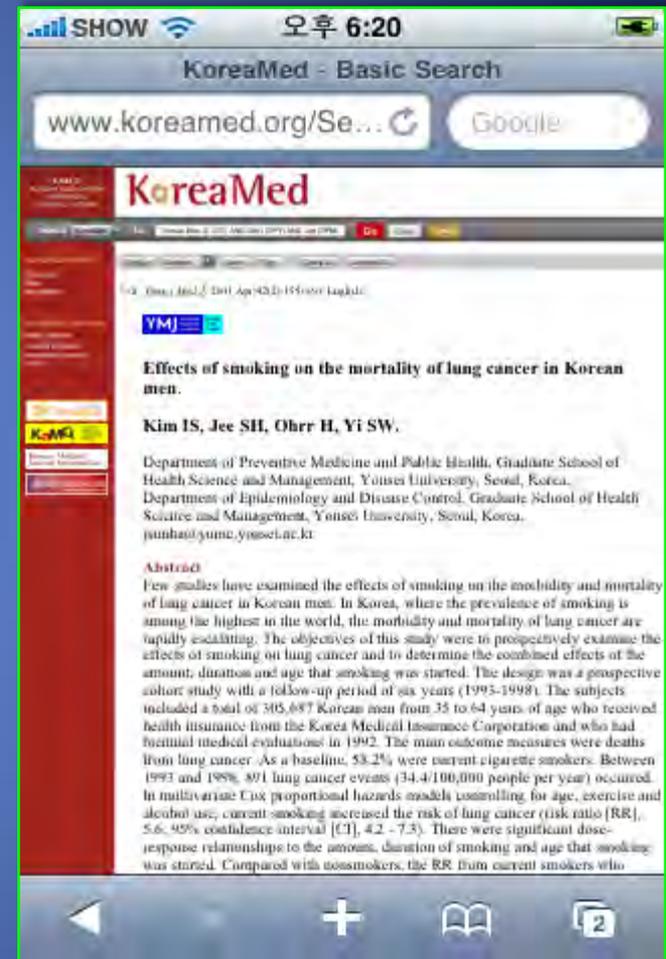
‘Limits’  
A new search interface of KoreaMed

# Limits Activated

# Visual enhancements

## Color accents





# Visual enhancements

## Colorful LinkOut icons

11. *J Korean Med Sci*. 2009 Feb;19(1):1-7. English. doi: 10.1186/kms.2009.19.1.1

**Molecular Motor Proteins of the Kinesin Superfamily (KIFs): Structure, Cargo and Disease.**

Seog DH, Lee DH, Lee SK.

Department of Microbiology, College of Medicine, Seoul National University, Seoul, Korea. daehyun@ajmc.yonsei.ac.kr  
Department of Psychiatry, College of Medicine, Seoul National University, Seoul, Korea.

**Abstract**  
Intracellular organelle transport is essential for many functions of the cell. Kinesins and kinesin-related proteins are a family of molecular motors that transport cargoes such as mitochondria, peroxisomes, lysosomes, protein on the cytoskeleton, virus particles, and mRNAs in a microtubule-dependent manner in neuronal and non-neuronal cells. Recently, 45 kinesin superfamily proteins (KIFs) have been identified in the human genomes. Elucidating the transport pathway identities of the cargoes moved, and the nature of the motor's cargo are areas of intense research. In this review, we discuss the structure, the binding partners of kinesins, and the cargo they transport.

▶ Publication Types: Review  
▶ NLM Term: Kinesin  
▶ Amino Acids: Kinesin

SHOW 5:23

KoreaMed - Basic Search

www.koreamed.org/Se... Google

**KoreaMed**

Evolution of Asthma Concept and Effect of Current Asthma Management Guidelines.

Lee J. *Allergy Asthma Immunol Res*. 2010 Jul;2(3):172-176. English. doi: 10.4168/aair.2010.2.3.172.

SHOW 5:25

KoreaMed - Basic Search

www.koreamed.org/Se... Google

**KoreaMed**

Radiofrequency Thermal Ablation of Hepatocellular Carcinomas.

Lee J. *Korean J Radiol*. 2000 Dec;1(4):175-184. English. doi: 10.3348/kjr.2000.1.4.175.

SHOW 6:23

**KoreaMed**

A Case of Meropenem-Resistant *Ochrobactrum anthropi* Bacteremia.

Kim GM, Jin SJ, Yoo JS, Kim CO, Choi JY, Kim JM, Song YG.

Department of Internal Medicine, Yonsei University College of Medicine, Seoul, Korea. imfelli@yuhs.ac

**Abstract**

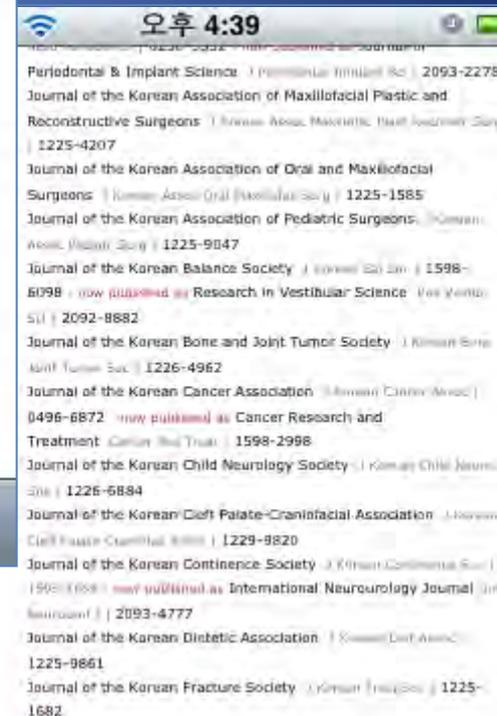
Meropenem-resistant *Ochrobactrum anthropi* bacteremia is a rare clinical entity. In this article, we report a case of meropenem-resistant *O. anthropi* bacteremia in a patient with a liver abscess. The patient was treated with meropenem for 14 days, but the fever and leukocytosis persisted. After a change to piperacillin-tazobactam, the patient recovered. This case highlights the importance of identifying the causative organism in patients with persistent fever and leukocytosis despite appropriate antibiotic therapy. In addition, the use of meropenem for the treatment of *O. anthropi* bacteremia should be avoided.

- KoreaMed Default Icon 1
- KoreaMed Default Icon 2
- Allergy, Asthma & Immunology Research
- Anatomy & Cell Biology
- Anesthesia and Pain Medicine
- Annals of Dermatology
- Asian Spine Journal
- Cancer Research and Treatment
- Chonnam Medical Journal
- Clinical and Experimental Otorhinolaryngology
- Clinics in Orthopedic Surgery
- Electrolytes & Blood Pressure
- Epidemiology and Health
- Experimental and Molecular Medicine
- Gut and Liver
- Healthcare Informatics Research
- Immune Network
- Infection and Chemotherapy
- International Neurology Journal
- Intestinal Research
- Journal of Bacteriology and Virology
- Journal of Breast Clinic
- Journal of Cardiovascular Ultrasound
- Journal of Clinical Neurology
- Journal of Educational Evaluation for Health Professions
- Journal of Geriatric Medicine
- Journal of Gynecologic Oncology
- Journal of Korean Academy of Child Health Nursing
- Journal of Korean Academy of Nursing
- The Journal of Korean Academy of Physiotherapy
- Journal of Korean Medical Association
- Journal of Korean Medical Science
- Journal of Korean Neurological Society
- Journal of Korean Society of Radiology
- Journal of Korean Society of Medical Parasitology

# Journal Browser

# Visual enhancements

Simplified  
and in 2 levels



# Available Issues

# Visual enhancements

## Color accents

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koreamed.org/Journal... Google

KoreaMed

As of May 17, 2010, there are 161 journals.

ALL A-I J K L-Z

- Annals of Dermatology(Ann Dermatol, 1013-9087)  
Began publication in 1989. Merger of: Korean Journal of Investigative D
- 2006 Jun Oct
- 2007 Mar Jun Sep Dec
- 2008 Mar Jun Sep Dec
- 2009 Feb May Aug Nov
- 2010 Feb May
- Asian Spine Journal(Asian Spine J, 1976-1902)  
Began publication in 2007.
- 2007 Jun Dec
- 2008 Jun Dec
- 2009 Jun Dec
- Cancer Research and Treatment(Cancer Res Treat, 1598-2998)  
Began publication in 1966. Title changed from Journal of the Korean Can
- Chonnam Medical Journal(Chonnam Med J, 0377-9564)  
Began publication in 1964.
- Clinical and Experimental Otorhinolaryngology  
Began publication in 2008.

SHOW 3G 오후 1:42  
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www.koreamed.org/Jo... Google

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JOURNAL EDITORS

Journal List > J Korean Med Sci

Journal History

Journal of Korean Medical Science: 1986 (v1 n1) to Present  
JIKMS 1911-0034, 0039-1989-0307

Journal of Korean Medical Science: 1986 (v1 n1) to Present

2010

JKMS	JKMS	JKMS	JKMS	JKMS
v10 n1 Jan	v10 n2 Feb	v10 n3 Mar	v10 n4 Apr	v10 n5 May

2009

JKMS	JKMS	JKMS	JKMS	JKMS	JKMS
v9 n1 Jan	v9 n2 Feb	v9 n3 Mar	v9 n4 Apr	v9 n5 May	v9 n6 Jun
JKMS	JKMS	JKMS	JKMS	JKMS	JKMS
v9 n7 Jul	v9 n8 Aug	v9 n9 Sep	v9 n10 Oct	v9 n11 Nov	v9 n12 Dec

2008

JKMS	JKMS	JKMS	JKMS	JKMS	JKMS
v8 n1 Jan	v8 n2 Feb	v8 n3 Mar	v8 n4 Apr	v8 n5 May	v8 n6 Jun

SHOW 3G 오전 9:17  
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JOURNAL EDITORS

Journal List > J Periodontal Implant Sci

Journal History

Journal of Periodontal & Implant Science: 1986 (v1 n1) to Present  
JIPIS 1011-0034, 0039-1989-0307

Journal of Periodontal & Implant Science: 1986 (v1 n1) to Present

2010

JIPIS	JIPIS
v10 n1 Jan	v10 n2 Feb

2009

JIPIS	JIPIS	JIPIS	JIPIS	JIPIS	JIPIS
v9 n1 Jan	v9 n2 Feb	v9 n3 Mar	v9 n4 Apr	v9 n5 May	v9 n6 Jun
JIPIS	JIPIS	JIPIS	JIPIS	JIPIS	JIPIS
v9 n7 Jul	v9 n8 Aug	v9 n9 Sep	v9 n10 Oct	v9 n11 Nov	v9 n12 Dec

2008

JIPIS	JIPIS	JIPIS	JIPIS	JIPIS	JIPIS
v8 n1 Jan	v8 n2 Feb	v8 n3 Mar	v8 n4 Apr	v8 n5 May	v8 n6 Jun

2007

JIPIS	JIPIS	JIPIS	JIPIS	JIPIS	JIPIS
v7 n1 Jan	v7 n2 Feb	v7 n3 Mar	v7 n4 Apr	v7 n5 May	v7 n6 Jun

2006

JIPIS	JIPIS	JIPIS	JIPIS	JIPIS	JIPIS
v6 n1 Jan	v6 n2 Feb	v6 n3 Mar	v6 n4 Apr	v6 n5 May	v6 n6 Jun

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Journal Browser  
Advanced Search  
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Korean Medical  
Journal Information



As of October 03, 2010, there are 164 journals.

ALL A-I J K L-Z

- Allergy, Asthma and Immunology Research Allergy Asthma Immunol Res | 2092-7355
- Anatomy & Cell Biology Anat Cell Biol | 2093-3665
- Anesthesia and Pain Medicine Anesth Pain Med | 1975-5171
- Annals of Dermatology Ann Dermatol | 1013-9087
- Asian Nursing Research Asian Nurs Res | 1976-1317
- Asian Spine Journal Asian Spine J | 1976-1902
- Cancer Research and Treatment Cancer Res Treat | 1598-2998
- Chonnam Medical Journal Chonnam Med J | 0377-9564
- Clinical Pediatric Hematology-Oncology Clin Pediatr Hematol-Oncol | 1975-2881
- Clinical and Experimental Otorhinolaryngology Clin Exp Otorhinolaryngol | 1976-8710
- Clinics in Orthopedic Surgery Clin Orthop Surg | 2005-291X
- Electrolyte & Blood Pressure Electrolyte Blood Press | 1738-5997 - now published as Electrolytes & Blood Pressure Electrolytes Blood Press | 1738-5997
- Electrolytes & Blood Pressure Electrolytes Blood Press | 1738-5997
- Endocrinology and Metabolism Endocrinol Metab | 2093-596X
- Epidemiology and Health Epidemiol Health | 2092-7193
- Experimental Neurobiology Exp Neurobiol | 1226-2560
- Experimental and Molecular Medicine Exp Mol Med | 1226-3613
- Genomics & Informatics Genomics Inform | 1598-2629
- Gut and Liver Gut Liver | 1976-2283
- Hanyang Medical Reviews Hanyang Med Rev
- Healthcare Informatics Research Healthc Inform Res | 2093-3681
- Immune Network Immune Netw | 1598-2629
- Infection and Chemotherapy Infect Chemother | 2093-2340
- International Neurourology Journal Int Neurorol J | 2093-4777
- Intestinal Research Intest Res | 1598-9100
- The Journal of Advanced Prosthodontics J Adv Prosthodont | 2005-7806
- Journal of Agricultural Medicine & Community Health J Agric Med Comm Health | 1015-6461 - now published as Korean Diabetes Journal Korean Diabetes J | 1976-9180
- Journal of Asthma, Allergy and Clinical Immunology J Asthma Allergy Clin Immunol
- Journal of Bacteriology and Virology J Bacteriol Virol | 1598-2467
- Journal of Breast Cancer J Breast Cancer | 1738-6586
- Journal of Cardiovascular Ultrasound J Cardiovasc Ultrasound | 1975-4612
- Journal of Clinical Neurology J Clin Neurol | 1738-6586
- Journal of Clinical Pathology and Quality Control J Clin Pathol Qual Control | 1225-097X - now published as Journal of Laboratory Medicine and Quality Assurance J Lab Med Qual Assur | 1225-097X
- Journal of Educational Evaluation for Health Professions J Educ Eval Health Prof | 1975-5937
- Journal of Gastric Cancer J Gastric Cancer | 2093-582X
- Journal of Genetic Medicine J Genet Med | 1226-1769
- Journal of Gynecologic Oncology J Gynecol Oncol | 2005-0380
- Journal of Korean Academy of Adult Nursing J Korean Acad Adult Nurs | 1225-4886
- Journal of Korean Academy of Child Health Nursing J Korean Acad Child Health Nurs | 1226-1815
- Journal of Korean Academy of Fundamental Nursing J Korean Acad Fundam Nurs | 1225-9012
- Journal of Korean Academy of Nursing J Korean Acad Nurs | 1598-2874 - now published as Journal of Korean Academy of Nursing J Korean Acad Nurs | 2005-3673
- Journal of Korean Academy of Nursing Administration J Korean Acad Nurs Admin | 1225-9330
- Journal of Korean Academy of Oral and Maxillofacial Radiology J Korean Acad Oral Maxillofac Radiol | 1225-049X - now published as Korean Journal of Oral and Maxillofacial Radiology Korean J Oral Maxillofac Radiol | 1229-8212

Visual enhancements

The same layout is applied to KoreaMed & Synapse

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Synapse Journals

As of October 07, 2010, there are 80 journals.

ALL A-I J K L-Z

- Allergy, Asthma and Immunology Research Allergy Asthma Immunol Res | 2092-7355
- Anatomy & Cell Biology Anat Cell Biol | 2093-3665
- Annals of Dermatology Ann Dermatol | 1013-9087
- Asian Spine Journal Asian Spine J | 1976-1902
- Cancer Research and Treatment Cancer Res Treat | 1598-2998
- Endocrinology and Metabolism Endocrinol Metab | 2093-596X
- Epidemiology and Health Epidemiol Health | 2092-7193
- Experimental and Molecular Medicine Exp Mol Med | 1226-3613
- Gut and Liver Gut Liver | 1976-2283
- Healthcare Informatics Research Healthc Inform Res | 2093-3681
- Immune Network Immune Netw | 1598-2629
- Infection and Chemotherapy Infect Chemother | 2093-2340
- International Neurourology Journal Int Neurorol J | 2093-4777
- Intestinal Research Intest Res | 1598-9100
- The Journal of Advanced Prosthodontics J Adv Prosthodont | 2005-7806
- Journal of Bacteriology and Virology J Bacteriol Virol | 1598-2467
- Journal of Cardiovascular Ultrasound J Cardiovasc Ultrasound | 1975-4612
- Journal of Clinical Neurology J Clin Neurol | 1738-6586
- Journal of Educational Evaluation for Health Professions J Educ Eval Health Prof | 1975-5937
- Journal of Gastric Cancer J Gastric Cancer | 2093-582X
- Journal of Gynecologic Oncology J Gynecol Oncol | 2005-0380
- Journal of Korean Academy of Child Health Nursing J Korean Acad Child Health Nurs | 1226-1815
- Journal of Korean Academy of Nursing J Korean Acad Nurs | 1598-2874 - now published as Journal of Korean Academy of Nursing J Korean Acad Nurs | 2005-3673
- The Journal of Korean Academy of Prosthodontics J Korean Acad Prosthodont | 0301-2875
- The Journal of Korean Diabetes Association J Korean Diabetes Assoc | 1015-6461 - now published as Korean Diabetes Journal Korean Diabetes J | 1976-9180
- Journal of Korean Endocrine Society J Korean Endocr Soc | 1015-6380 - now published as Endocrinology and Metabolism Endocrinol Metab | 2093-596X
- Journal of Korean Medical Science J Korean Med Sci | 1011-8934

# Search Results/Table of Contents

# Visual enhancements

# Color simplified



# Intuitive Hypertext links

dotted line, turn red when “finger-over”



# Abstract record



# New abstract record format



Various access points added

Publication type  
MeSH  
Author keywords

# Abstract record (Old format)

KAMJE  
KOREAN ASSOCIATION  
OF MEDICAL  
JOURNAL EDITORS

# KoreaMed

KoreaMed

Search  for

1: *Yonsei Med J.* 2001 Apr;42(2):155-160. English.

Full text article at  
[www.eymj.org](http://www.eymj.org)

## Effects of smoking on the mortality of lung cancer in Korean men.

**Kim IS, Jee SH, Ohrr H, Yi SW.**

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Few studies have examined the effects of smoking on the morbidity and mortality of lung cancer in Korean men. In Korea, where the prevalence of smoking is among the highest in the world, the morbidity and mortality of lung cancer are rapidly escalating. The objectives of this study were to prospectively examine the effects of smoking on lung cancer and to determine the combined effects of the amount, duration and age that smoking was started. The design was a prospective cohort study with a follow-up period of six years (1993-1998). The subjects included a total of 305,687 Korean men from 35 to 64 years of age who received health insurance from the Korea Medical Insurance Corporation and who had biennial medical evaluations in 1992. The main outcome measures were deaths from lung cancer. As a baseline, 58.2% were current cigarette smokers. Between 1993 and 1998, 891 lung cancer events (34.4/100,000 people per year) occurred. In multivariate Cox proportional hazards models controlling for age, exercise and alcohol use, current smoking increased the risk of lung cancer (risk ratio [RR], 5.6; 95% confidence interval [CI], 4.2 - 7.3). There were significant dose-response relationships to the amount, duration of smoking and age that smoking was started. Compared with nonsmokers, the RR from current smokers who smoked 20 cigarettes per day for over 30 years was 8.2 (5.9 - 11.3), the RR from current smokers who smoked for over 30 years and were less than 19 years of age when they started smoking was 7.8 (5.2 - 11.9), and the RR for those who smoke 20 cigarettes per day and were less than 19 years of age when they started smoking was 8.3 (5.9 - 11.6). This study demonstrates that in Korea smoking is a major independent risk factor for lung cancer, and that the risk increases with an increased amount, longer duration, and younger starting age.

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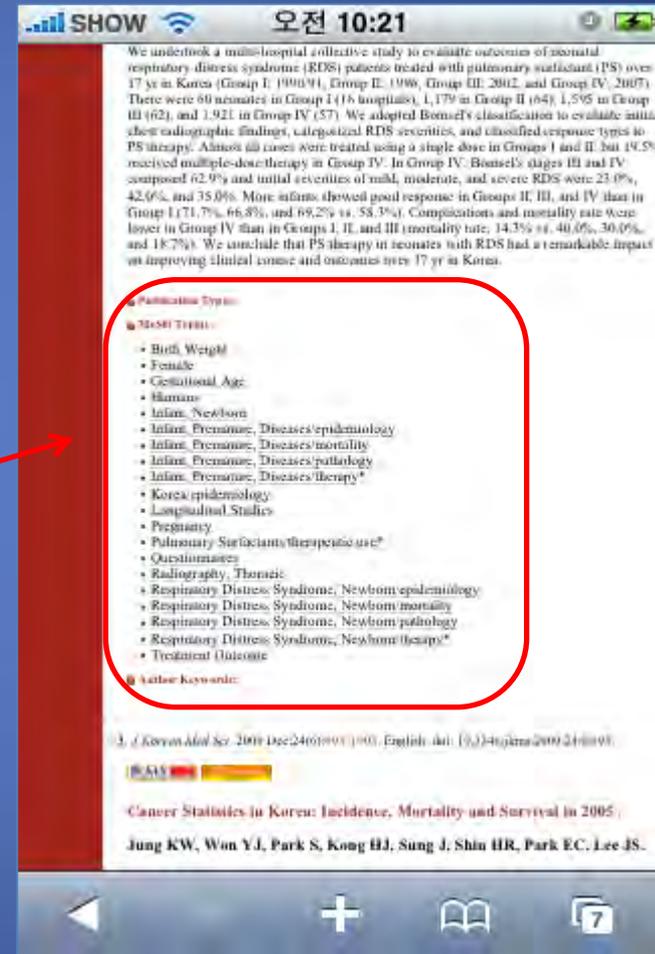
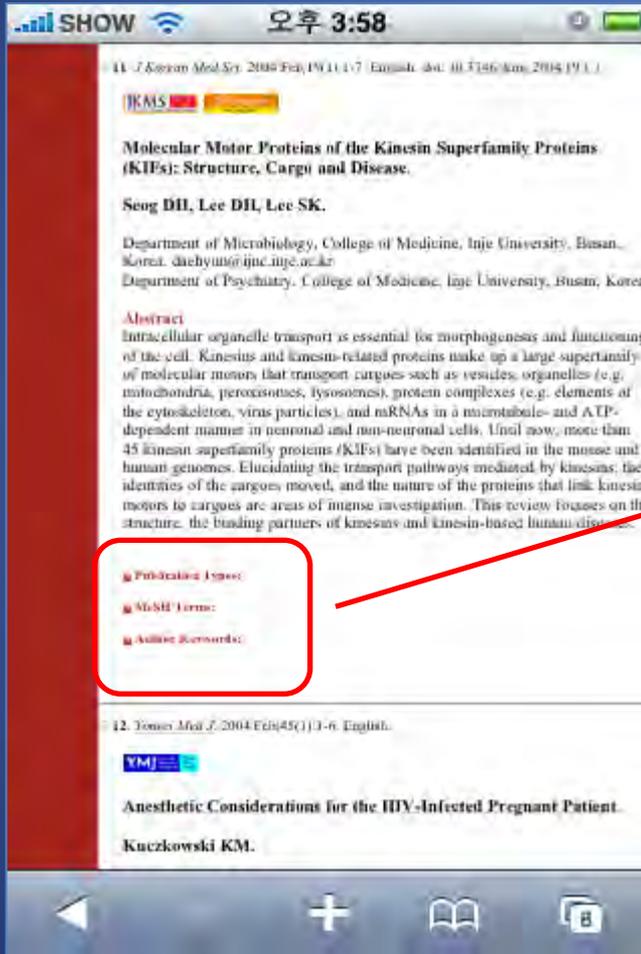
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## Diagnosis and Treatment of Nontuberculous Mycobacterial Pulmonary Diseases: A Korean Perspective.

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Department of Radiology and Center for Imaging Science, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea.

### Abstract

The incidence of pulmonary disease caused by nontuberculous mycobacteria (NTM) appears to be increasing worldwide. In Korea, *M. avium* complex and *M. abscessus* account for most of the pathogens encountered, whilst *M. kansasii* is a relatively uncommon cause of NTM pulmonary diseases. NTM pulmonary disease is highly complex in terms of its clinical presentation and management. Because its clinical features are indistinguishable from those of pulmonary tuberculosis and NTMs are ubiquitous in the environment, the isolation and identification of causative organisms are mandatory for diagnosis, and some specific diagnostic criteria have been proposed. The treatment of NTM pulmonary disease depends on the infecting species, but decisions concerning the institution of treatment are never easy. Treatment requires the use of multiple drugs for 18 to 24 months. Thus, treatment is expensive, often has significant side effects, and is frequently not curative. Therefore, clinicians should be confident that there is sufficient pathology to warrant prolonged, multidrug treatment regimens. In all of the situations, outcomes can be best optimized only when clinicians, radiologists, and laboratories work cooperatively.

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## Radiofrequency Thermal Ablation of Hepatocellular Carcinomas.

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### Abstract

Although surgical resection remains the best option as potentially curative therapy for hepatocellular carcinoma, radiofrequency thermal ablation has begun to receive much attention as an effective minimally invasive therapy for the local control of unresectable malignant hepatic tumors. Most recent radiofrequency devices with a powerful generator and larger needle electrode permit larger thermal lesions, up to 5 cm in diameter. In this article, the author reviews the technical developments and early clinical applications of radiofrequency ablation techniques.

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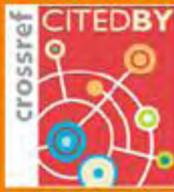
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### Measurements of Arterial Stiffness: Methodological Aspects

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A significant association between increased arterial stiffness and the development of cardiovascular disease has led to the increased use of arterial stiffness in the clinical assessment of cardiovascular risk. Various methods are currently available. With advances in technology, the assessment have become easy to use and more acceptable to patients. However, the different techniques available measure arterial stiffness at different locations and have unique indices for arterial stiffness. For the appropriate assessment of arterial stiffness, accurate and reproducible measurement of arterial stiffness are essential. Here we review the methodological aspects of the measurement of arterial stiffness and provide information on the measurement methods available and their clinical applications.

Keywords: Arteries, Elasticity, Atherosclerosis, Risk factors.

### Introduction

Blood pressure is largely influenced by cardiac contraction, large artery stiffness and reflection of peripheral waves. During systole, cardiac contraction propels blood flow through the arterial system and this generates pressure waves that are propagated to all of the parts of the body. When the pressure waves reach branch points, or sites of impedance mismatch,

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**Diagnosis and Treatment of Nontuberculous Mycobacterial Pulmonary Diseases: A Korean Perspective.**

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Division of Pulmonary and Critical Care Medicine, Department of Medicine, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea.  
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Department of Radiology and Center for Imaging Science, Sungkyunkwan University School of Medicine, Seoul, Korea.

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- Mycobacterium Infections, Atypical/drug therapy
- Mycobacterium Infections, Atypical/microbiology
- Mycobacterium avium-intracellulare Infection/diagnosis
- Mycobacterium avium-intracellulare Infection/drug therapy

optimized only when clinicians, radiologists, and laboratorians work cooperatively.

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**Publication Types:**

- Review
- Research Support, Non-U.S. Gov't

**MeSH Terms:**

- Anti-Bacterial Agents/therapeutic use
- Female
- Humans
- Korea
- Lung Diseases/diagnosis\*
- Lung Diseases/drug therapy
- Lung Diseases/microbiology
- Male
- Mycobacterium Infections, Atypical/diagnosis\*
- Mycobacterium Infections, Atypical/drug therapy
- Mycobacterium Infections, Atypical/microbiology
- Mycobacterium avium-intracellulare Infection/diagnosis
- Mycobacterium avium-intracellulare Infection/drug therapy

SEARCH RESULTS FOR "Lung Diseases/diagnosis\* [MAJR]"

1. Comparison of Clinical and Radiographic Characteristics of the Bronchiectatic Form of Nontuberculous Mycobacterial Panbronchiolitis.  
Park HY, Suh GY, Chung MP, Kim H, Kwon OJ, Koh WJ.  
J Korean Med Sci. 2009 Jun;24(3):427-432. English. doi: 10.3346/jkms.2009.24.3.427.

2. A Case of Adult-Onset Still's Disease Complicated with Hemorrhage.  
Sari I, Birlık M, Biniciier O, Akar S, Yilmaz E, Onen S.  
J Korean Med Sci. 2009 Feb;24(1):155-157. English. doi: 10.3346/jkms.2009.24.1.155.

3. Pulmonary Disease Caused by Mycobacterium xenovum.  
Park HY, Koh WJ, Kwon OJ, Lee NY, Shim YM, Park JH, Yonsei Med J. 2007 Oct;48(5):871-875. English. doi: 10.3346/jkms.2007.48.5.871.

4. Plasma Cell Granuloma Associated with Pulmonary Mycobacterium Infection.



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## Figures & Tables

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expected for uninfected patients with the same disease severity, we identify an additional independent risk factor for candidemia, the presence of hepatic failure on MICU admission. Therefore, increased awareness of risk factors, including hepatic failure, is necessary for the management of candidemia.

**Figures**

**Fig. 1**  
Kaplan-Meier survival curves for candidemia patients and controls in an MICU. The solid line indicates the cumulative survival of 49 patients with candidemia and the dashed line indicates the cumulative survival of 147 control patients ( $P=0.024$ ).

**Tables**

**Table 1**  
Baseline characteristics of patients with candidemia and controls in an MICU

$\chi^2$  test for candidemia patients vs. controls according to the chi-square test,  $\chi^2$  test for candidemia patients vs. controls according to the Mann-Whitney test.

APACHE, Acute Physiology and Chronic Health Evaluation; COPD, chronic obstructive pulmonary disease; ICU, intensive-care unit; duration of pre-ICU stay, general ward stay before ICU admission; duration of pre-candidemia ICU stay, days from ICU admission to candidemia; delay to start of therapy, days from diagnosis of candidemia to commencement of antifungal therapy; patients with prophylactic therapy, patients treated with antifungal therapy before candidemia was diagnosed.

**Table 2**  
Results of univariate analysis for candidemia risk factors

Values are expressed as the number (%) of patients.

$\chi^2$  determined using the chi-squared test.

OR, odds ratio; CI, confidence interval; central venous catheter, external jugular venous catheter; femoral catheter, femoral vein catheter; Swan-Ganz catheter, arterial catheter; intravenous catheter, intravenous catheter; dialysis, dialysis; or solid or use of immunosuppressive agent, etc.

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KoreaMed Synapse

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**Fig. 1**  
Kaplan-Meier survival curves for candidemia patients and controls in an MICU. The solid line indicates the cumulative survival of 49 patients with candidemia and the dashed line indicates the cumulative survival of 147 control patients ( $P=0.024$ ).

J Korean Med Sci. 2010 May;25(5):671-676.  
doi: 10.3346/jkms.2010.25.5.671

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## References/Reference linking to source articles

오전 10:34

- 1. Konecny G, Orntoft C, Pagan M, Fisher M, Lude S, Karbacher F, et al. In vitro ATP-CRA: Correlation of drug response with the ATP fluorescence sensitivity assay in primary lung cancer. *Clin Oncol* 2006;17:228-263.
- 2. Karbacher CM, Orntoft C, Pagan M, Fisher M, Lude S, Karbacher F, et al. In vitro ATP-CRA: Correlation of drug response with the ATP fluorescence sensitivity assay in primary lung cancer. *Clin Oncol* 2006;17:228-263.
- 3. Unger S, Schindler G, Pichler C, Nordin K, Thiele A, Ulrich J, et al. In vitro drug sensitivity predicts response and survival after individualized chemotherapy-directed chemotherapy in metastatic melanoma: a multicenter phase II trial of the dermatologic cooperative oncology group. *Clin Cancer Res* 2006;12:5454-5463.
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- 5. Moon SW, Choi SH, Kim JY, Sohn JH, Chang J, Kim SK, Park MS, Chang KY, Lee HJ, Kim JH. Adenosine triphosphate-based chemotherapy response assay (ATP-CRA)-guided platinum-based 2-drug chemotherapy for inoperable non-small-cell lung cancer. *Cancer* 2009;109:1829-1835.
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- 8. Herber G, Strain K. In vitro chemosensitivity testing of human non-small cell lung cancer cell lines. *Anticancer Res* 1998;18:3181-3185.
- 9. Brady AV, Gattin M, Stadelin J, Thomas JD, Fabbro K, Wright JG, Piantoni ER, Bhatnagar M, Calvert AH. Pharmacological study of paclitaxel duration of infusion combined with GFR-based carboplatin in the treatment of ovarian cancer. *Cancer*

오전 10:34

### A Feasibility Study of Adenosine Triphosphate-Based Chemotherapy Response Assay (ATP-CRA) as a Chemosensitivity Test for Lung Cancer

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Cancer Res Treat. 2005 Aug 37(4):223-7. Epub 2005 Aug 31.

**A Feasibility Study of Adenosine Triphosphate-Based Chemotherapy Response Assay (ATP-CRA) as a Chemosensitivity Test for Lung Cancer.**

Kang SM, Park MS, Chang J, Kim SK, Kim H, Shin DH, Chang KY, Kim DJ, Sohn JH, Choi SH, Kim J, Yoon EJ, Kim JH

Department of Internal Medicine, Seoul National University College of Medicine, Seoul, Korea.

**Abstract:**

**PURPOSE:** A chemosensitivity test can reflect the differences in responses of individual cancer patients to chemotherapeutic agents. The adenosine triphosphate-based chemotherapy response assay (ATP-CRA) is an accurate method, which does not require a large amount of tumor specimens. So far, not studies have evaluated the utility of the ATP-CRA in Korea. Therefore, we investigated the clinical usefulness of the ATP-CRA in 53 patients with lung cancer. **MATERIALS AND METHODS:** Tumor tissues were obtained from bronchoscopic biopsies or surgical resections. The validity of ATP-CRA was assessed focusing on the auto-fluorescence, experimental error level (intrassay mean coefficient of variation [CV]) and reproducibility. **RESULTS:** The overall success rate of ATP-CRA was 90.8% (48/53). Normal cells were effectively eliminated from the tumor tissues with the use of flow gradient centrifugation and immunomagnetic separation, which was confirmed using loss of heterozygosity analysis of the 3p deletion. The mean CV of ATP assays was 10.5%–4.8%. The reproducibility of ATP assays was 94%–3.8%. The results of the ATP assays were reported to physicians within 7 days of specimen collection. More than 6 anticancer drugs were tested on the tumor specimens obtained from bronchoscopic biopsies. **CONCLUSION:** The ATP-CRA is a stable, accurate and potentially practical chemosensitivity test in patients with lung cancer.

PMID: 16265514 (PubMed - in process) [FREE FULLTEXT] Full RWC Article

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Full Text

Cancer Res Treat. 2005 Aug 37(4):223-227.

Published online 2005 August 31. doi: 10.1148/ort.2005.37.4.223.

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**A Feasibility Study of Adenosine Triphosphate-Based Chemotherapy Response Assay (ATP-CRA) as a Chemosensitivity Test for Lung Cancer**

Shin Myung Kang, M.D.,<sup>1</sup> Moo Suk Park, M.D.,<sup>2</sup> Joon Chang, M.D.,<sup>3</sup> Se Kyu Kim, M.D.,<sup>3</sup> Haeryoung Kim, M.D.,<sup>2</sup> Dong-Hwan Shin, M.D.,<sup>2</sup> Kyung Young Chang, M.D.,<sup>2</sup> Dae Joon Kim, M.D.,<sup>3</sup> Joo Hyuk Sohn, M.D.,<sup>1,4</sup> Sung Ho Cho, Ph.D.,<sup>5</sup> Jeongmi Kim, Ph.D.,<sup>5</sup> Eun Jin Yoon, M.Sc.,<sup>5</sup> and Joo-Hang Kim, M.D.<sup>1,4</sup>

<sup>1</sup>Department of Internal Medicine, Yonsei University College of Medicine, Seoul, Korea.

<sup>2</sup>Department of Pathology, Yonsei University College of Medicine, Seoul, Korea.

<sup>3</sup>Department of Cardiovascular and Thoracic Surgery, Yonsei University College of Medicine, Seoul, Korea.

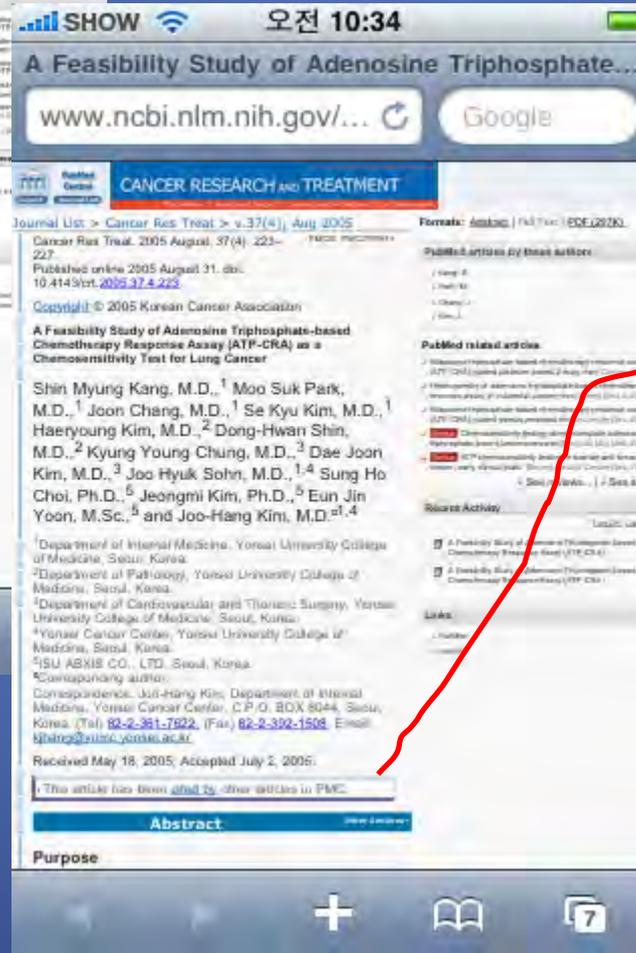
<sup>4</sup>Yonsei Cancer Center, Yonsei University College of Medicine, Seoul, Korea.

<sup>5</sup>ISU ABXIS CO., LTD, Seoul, Korea.

<sup>7</sup>Correspondence: Joo-Hang Kim, Department of Internal Medicine, Yonsei Cancer Center, C.P.D, BOX 8044, Seoul, Korea. (Tel) 82-2-395-7022, (Fax) 82-2-392-1508, E-mail: jhkim@yxmc.yonsei.ac.kr

Received May 18, 2005. Accepted July 02, 2005.

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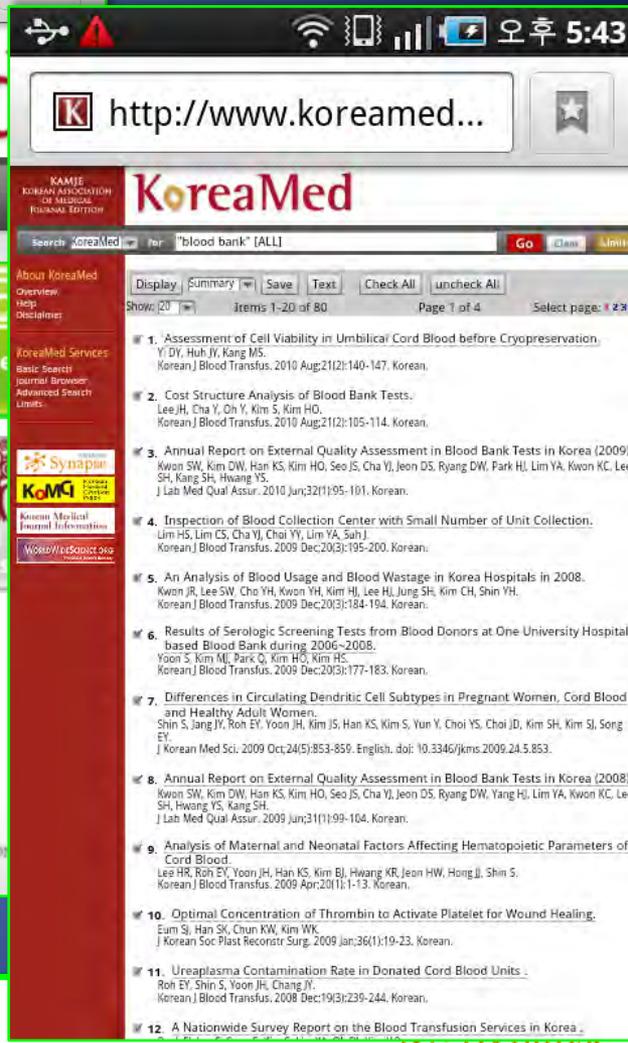
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- Medical Terminology. 5<sup>th</sup> ed.  
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- Word/phrase is suggested  
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- Reduces typing & “typos”

# Search word/phrase suggestion

Auto completion

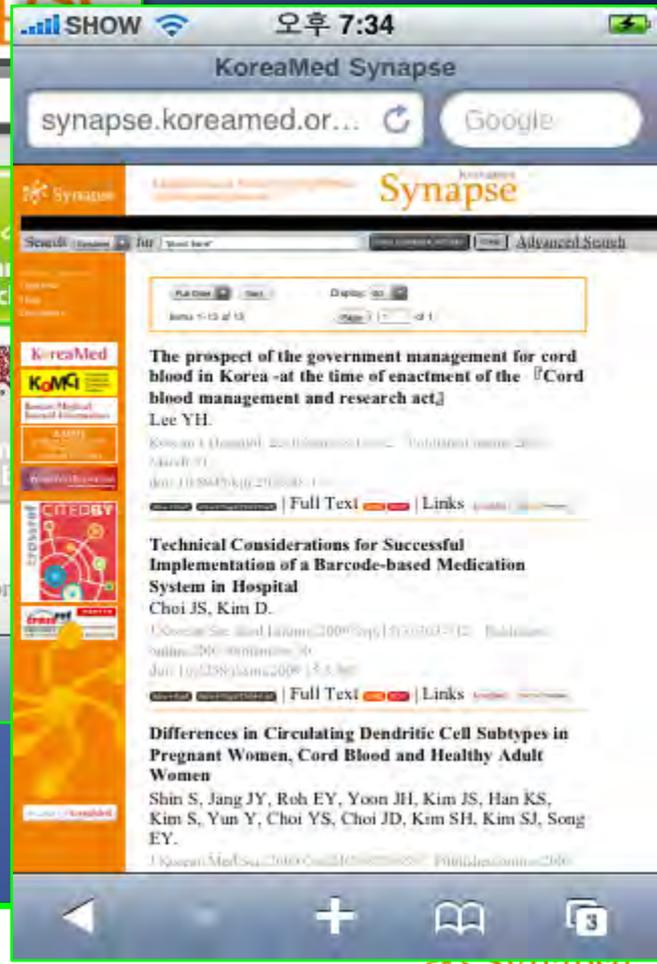
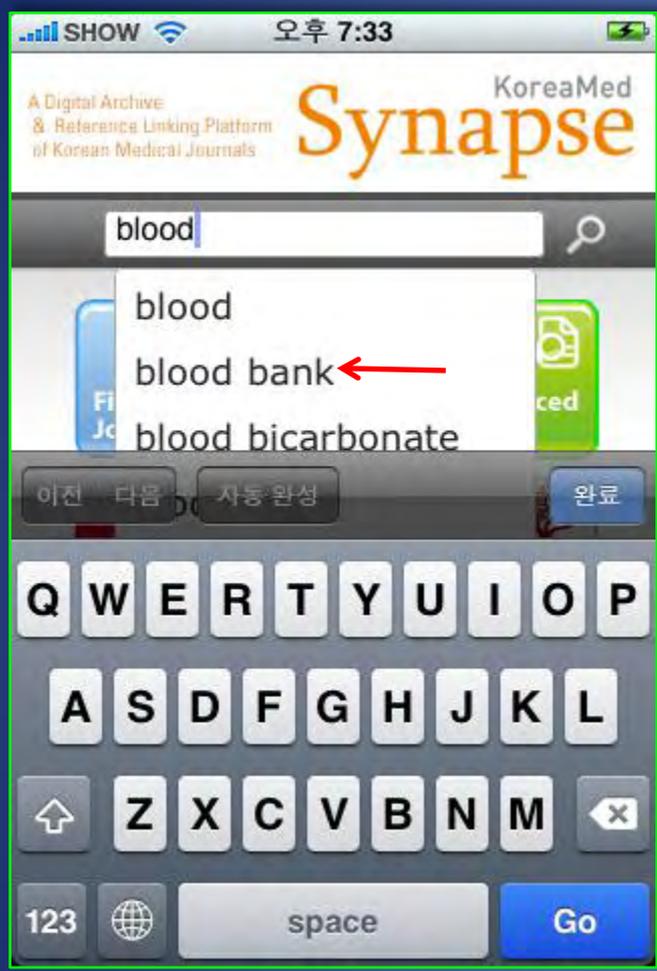
Reduce typing



# Search word/phrase suggestion

Auto completion

Reduce typing

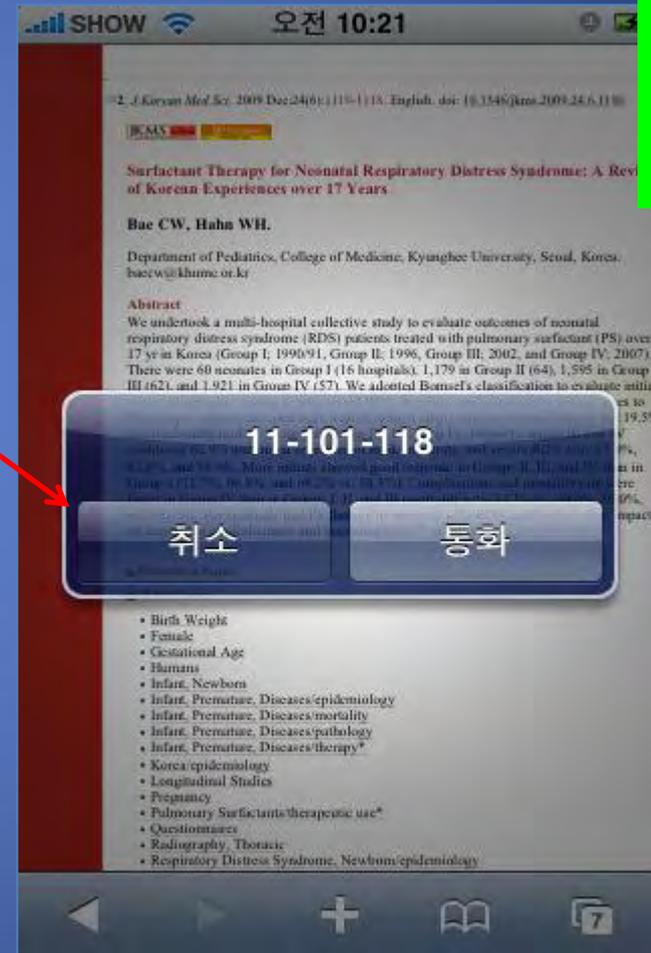


# Strange Looks on Smart Phone (Mobile specific bugs?)

- Mobile phone is a telephone.  
More than 8-digit numbers are recognized as Phone Links
- Smaller width/length compared to PC/  
notebook screens.
- Display one screen at a time.  
A pop-up window as a separate screen.

# More than 8-digit numbers recognized as Phone Links

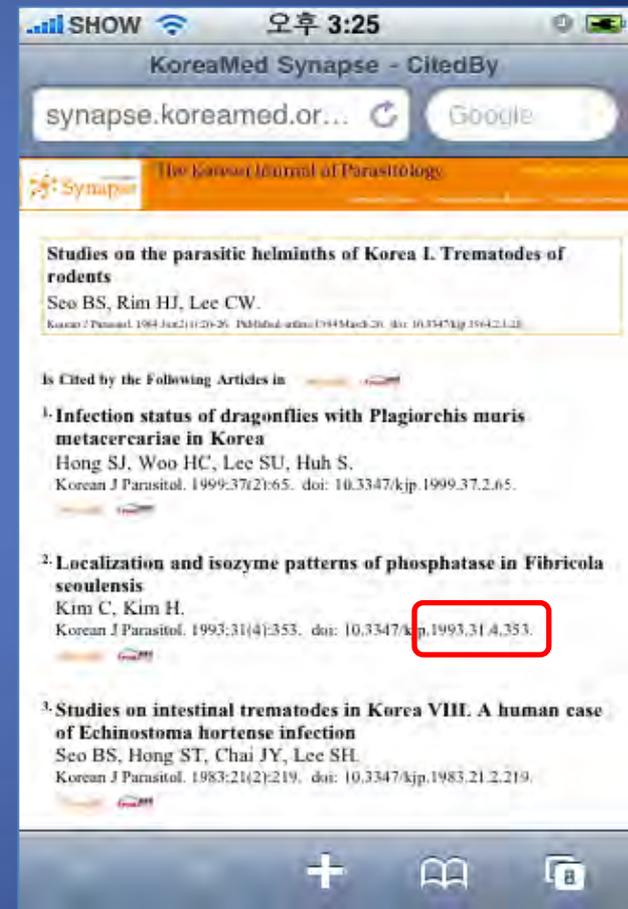
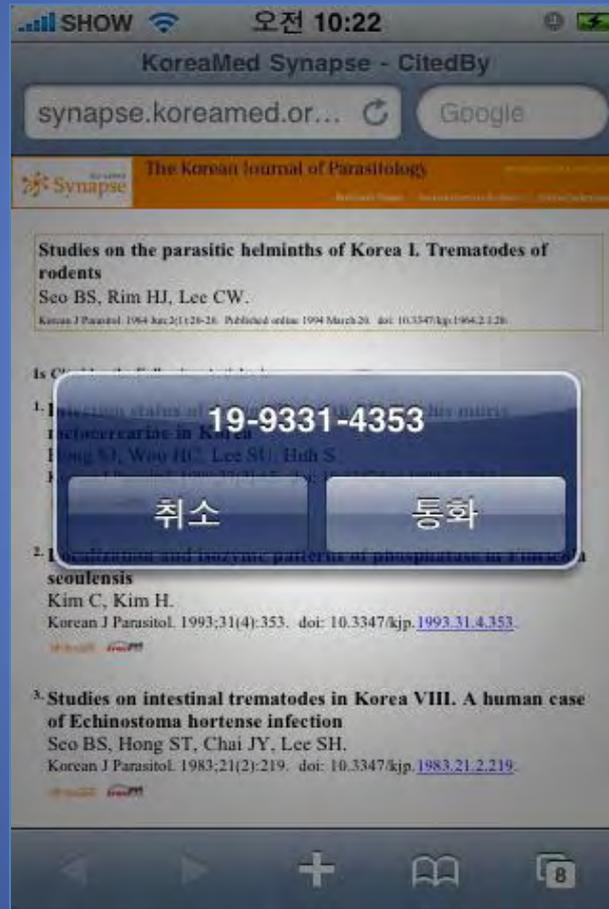
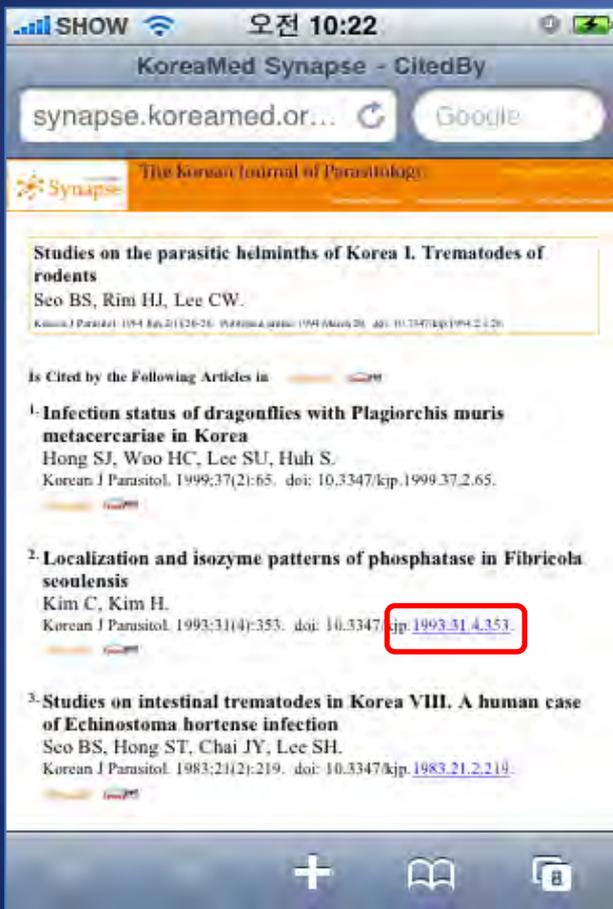
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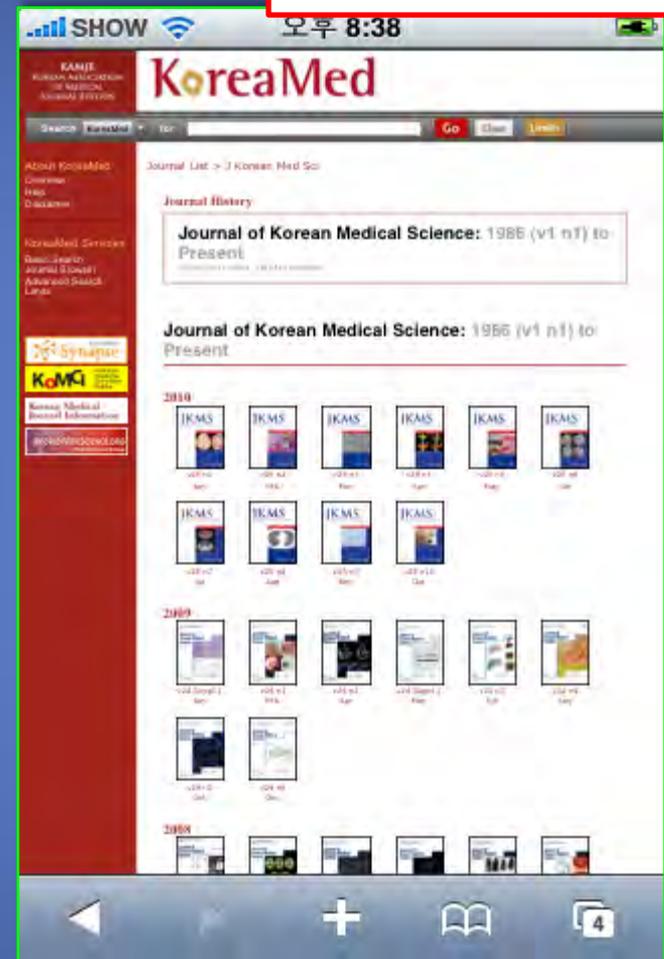
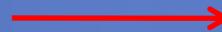
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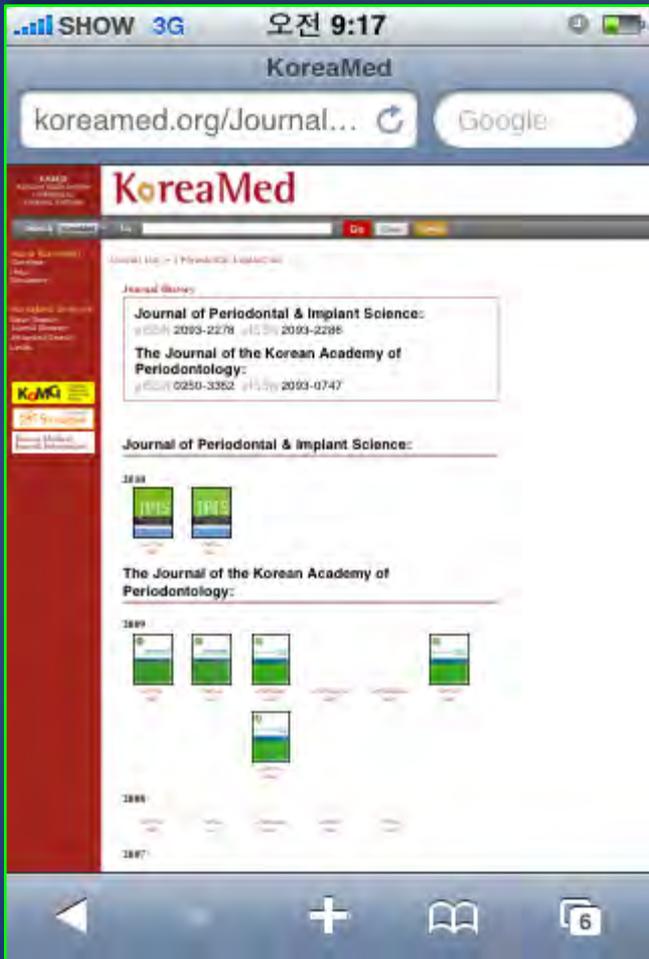
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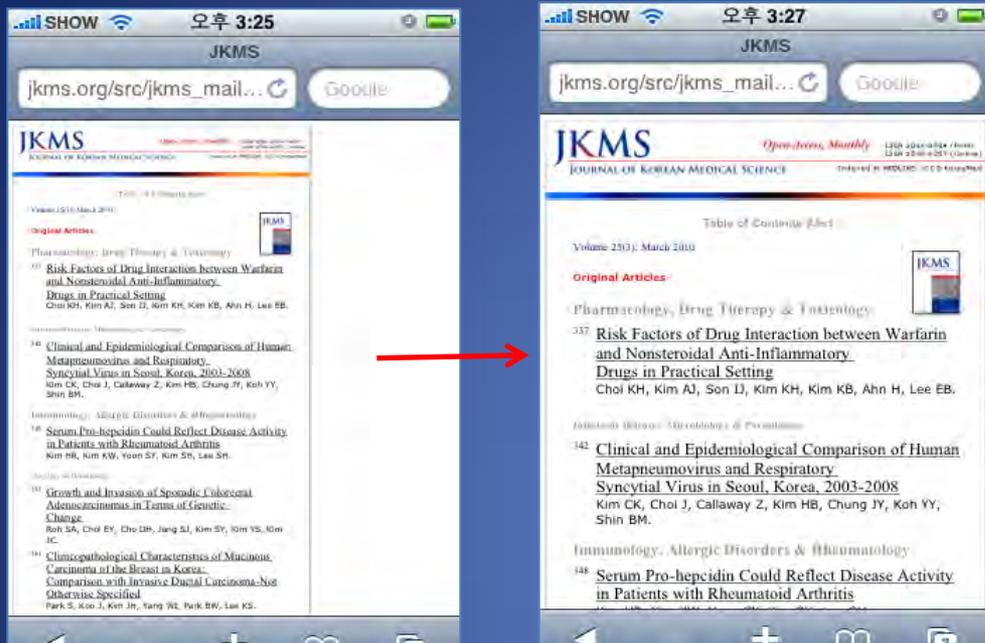


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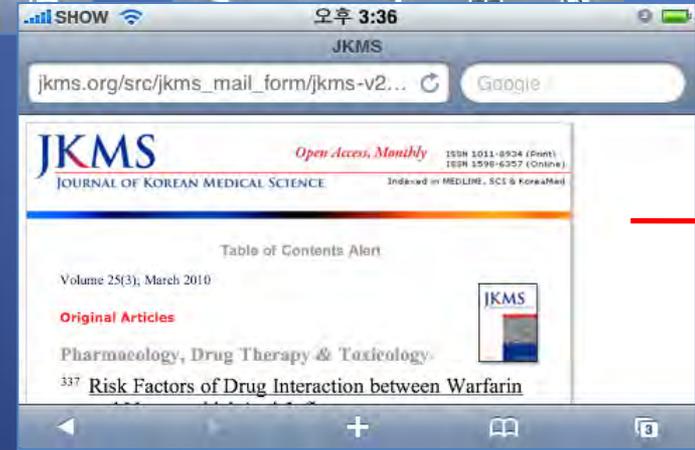
# Portrait mode



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# Landscape mode



# Uneven looks

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# Left-hand side Navigation Menu does not go all the way down

Safari: problem  
Window mobile: o.k.



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# Mobile Service Development Plans

## Phase 2

### 1. Mobile Optimization for Internet Access

- Interface design/Visual design
- Various hypertext links
- Search word/phrase auto completion
- Mobile specific bugs

### 2. Mobile Web (<http://m.koreamed.org>)

### 3. Voice Access/Search

Began implementation with Android phone

### 4. App Service

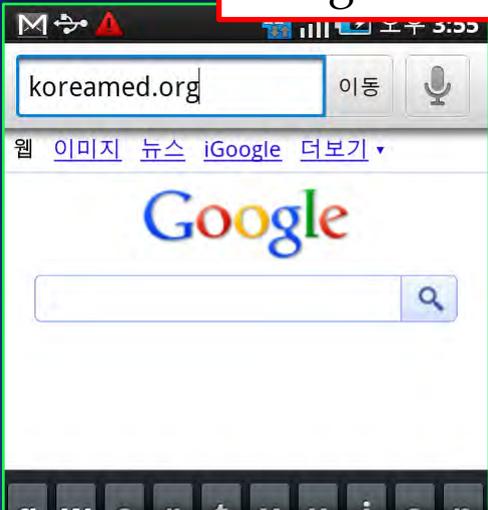
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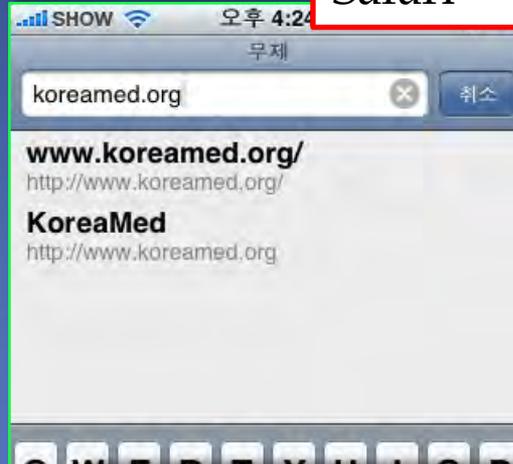
<http://m.synapse.koreamed.org>

- Automatically recognized when you access via mobile phone with regular KoreaMed URL <http://koreamed.org> and Synapse URL <http://synapse.koreamed.org>
- Initial interface page with icon menus
- The same interface pages will be used in Apps to be implemented

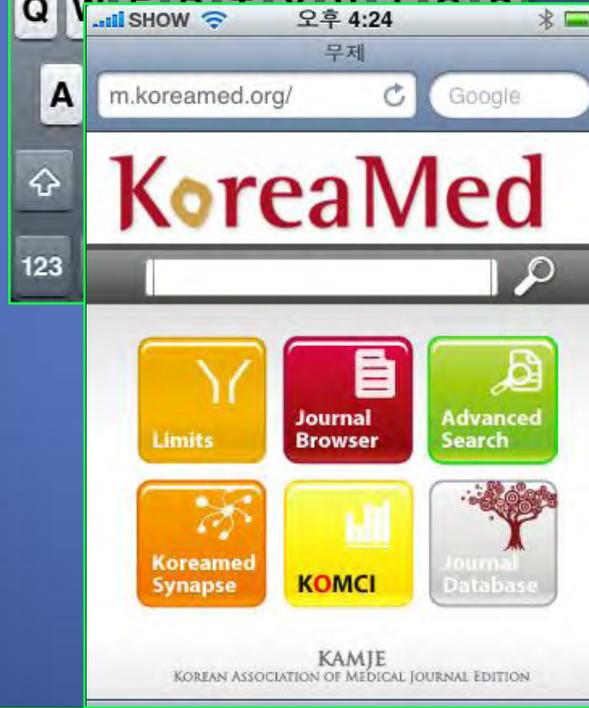
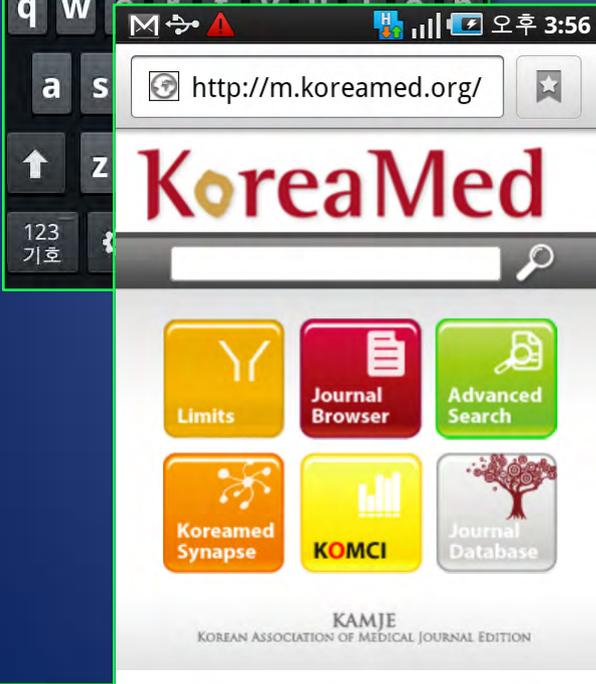
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Google Chrome

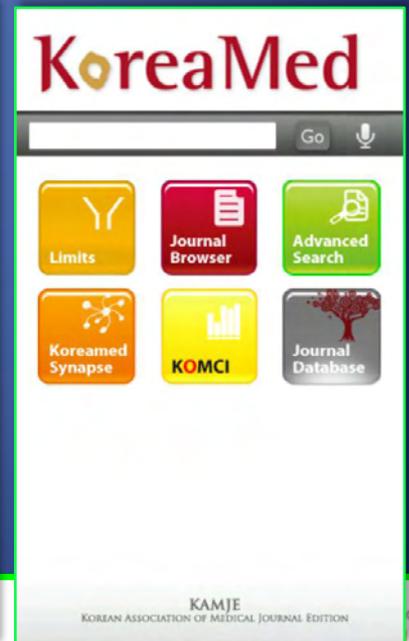
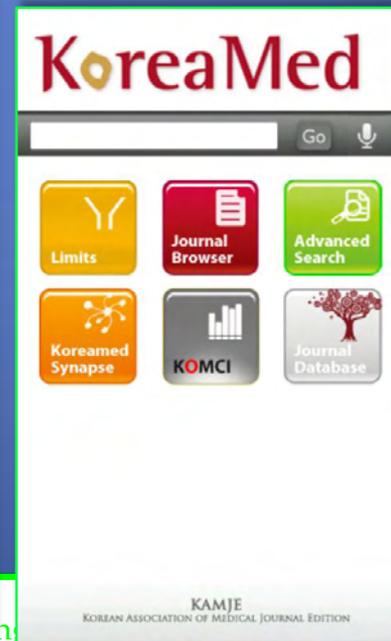
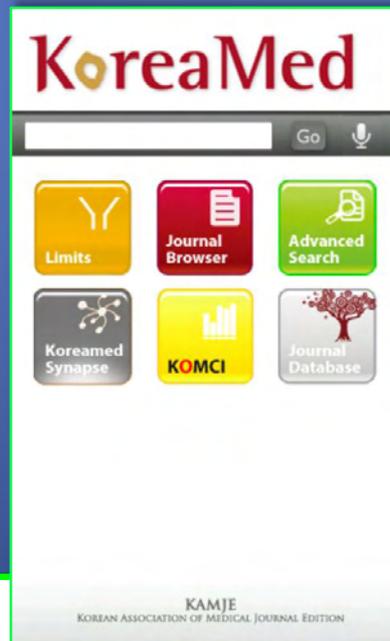
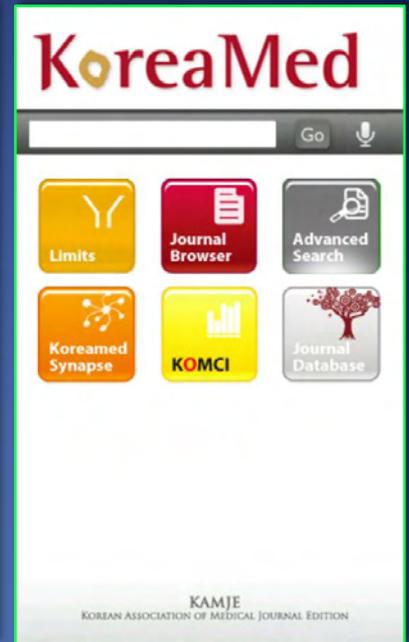
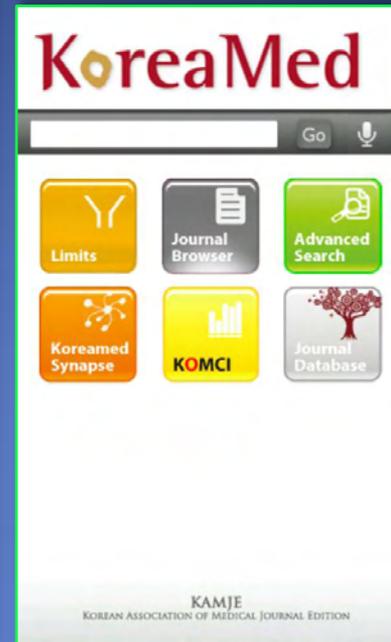
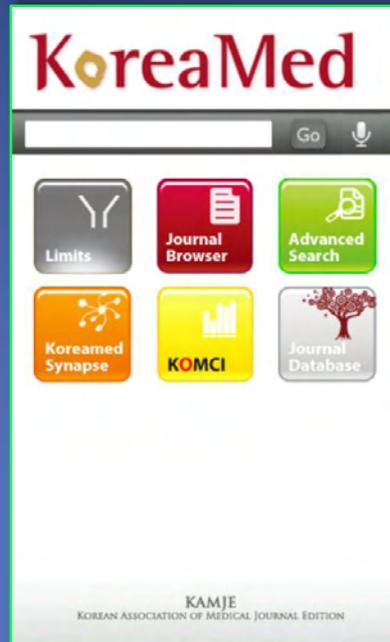


iPhone:  
Safari



Window mobile:  
Internet Explorer





# Mobile Service Development Plans

## Phase 3

### 1. Mobile Optimization for Internet Access

- Interface design/Visual design
- Various hypertext links
- Search word/phrase auto completion
- Mobile specific bugs

### 2. Mobile Web (<http://m.koreamed.org>)

### 3. Voice Access/Search

Began implementation with Android phone

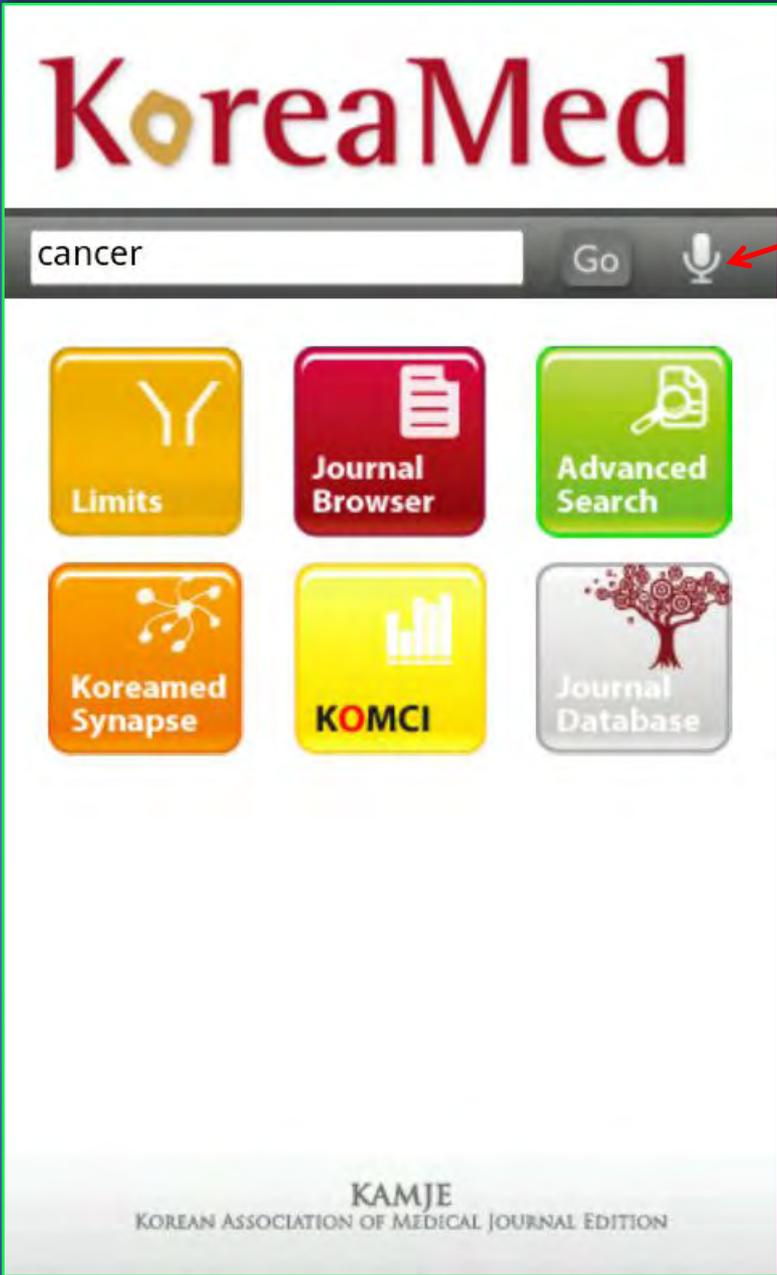
### 4. App Service

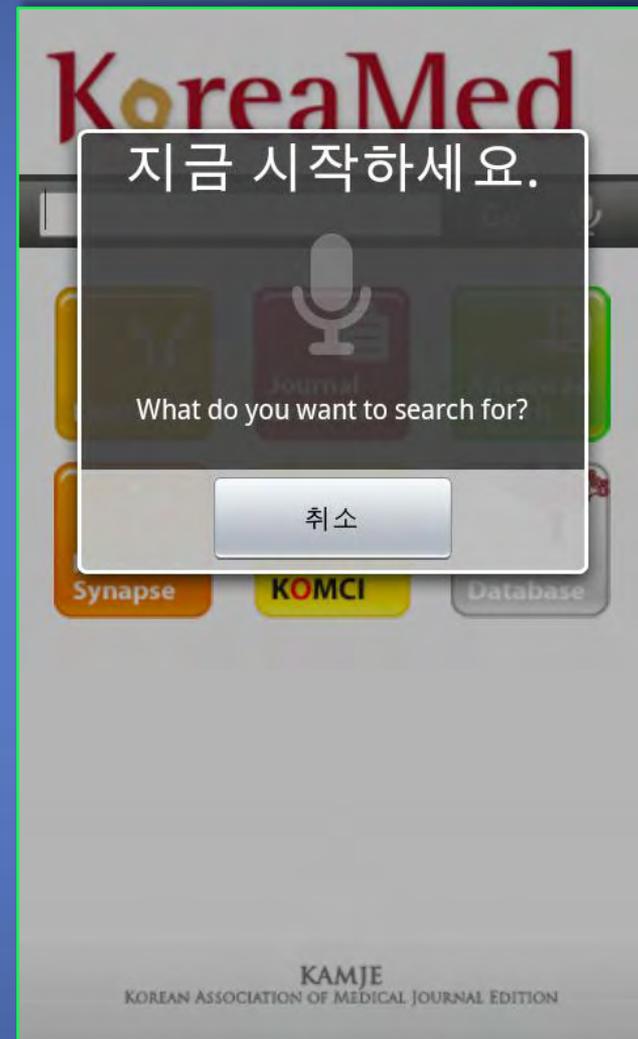
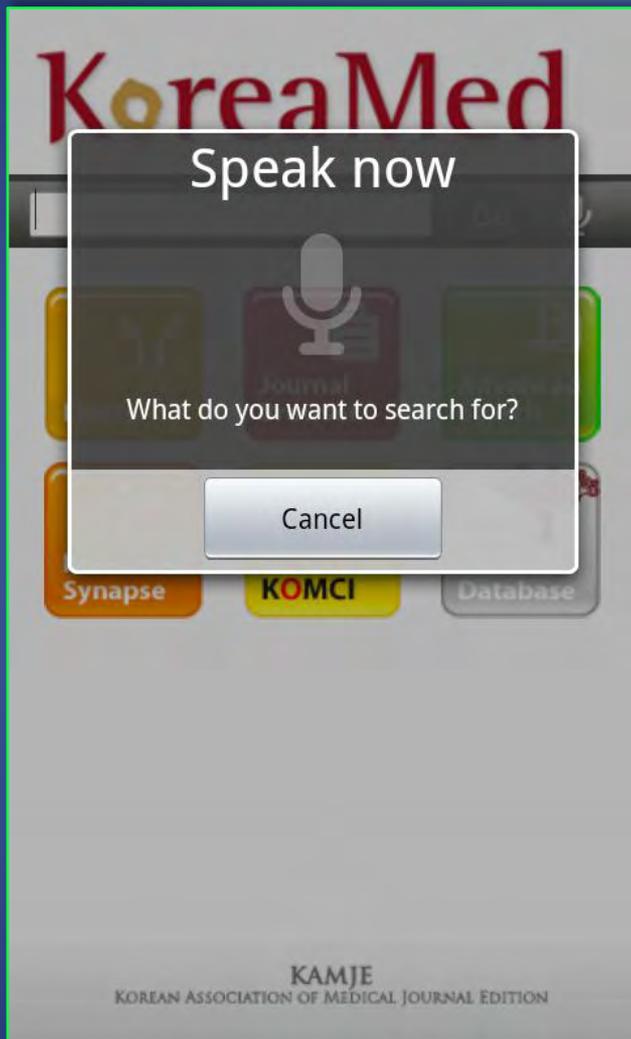
# Voice Access/Search

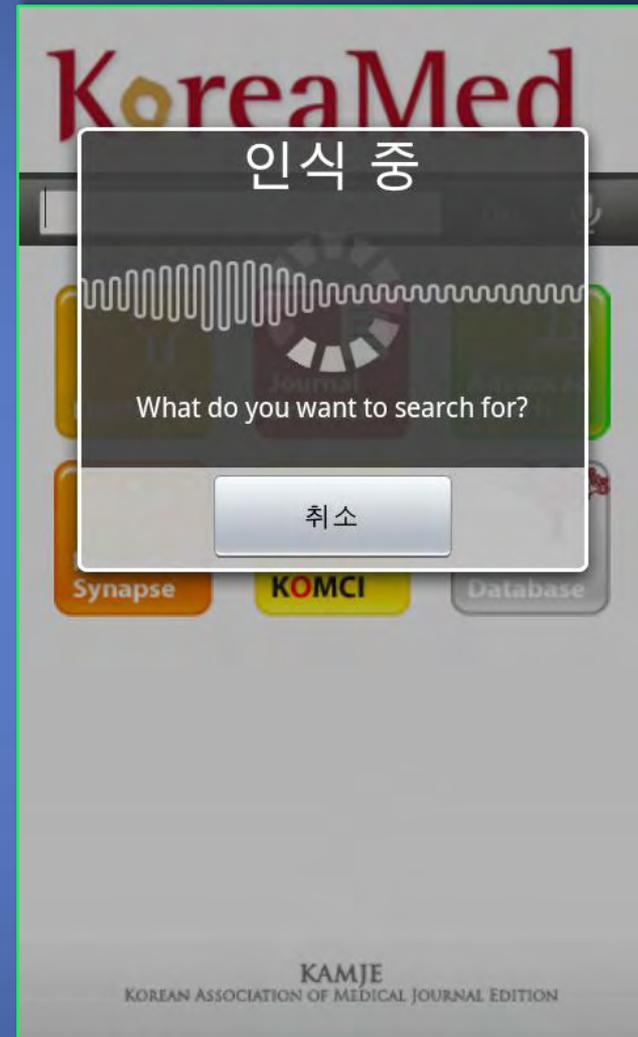
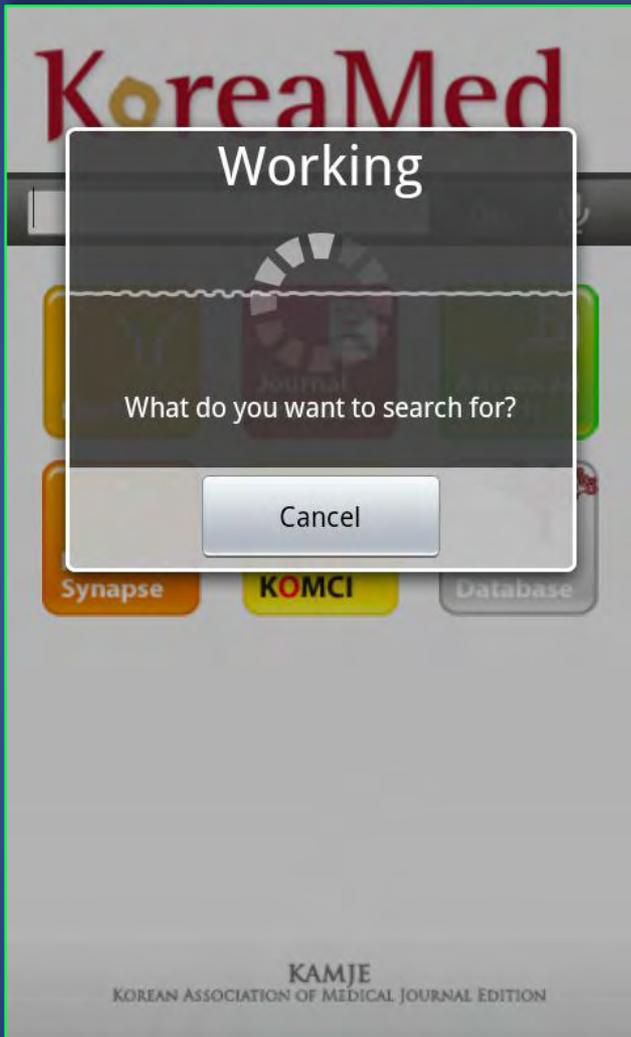
- Currently in implementation on Android phone
- KoreaMed & Synapse Apps in Android market to be available by the end of Nov. 2010
- Voice recognition system messages in the languages of user OS default language

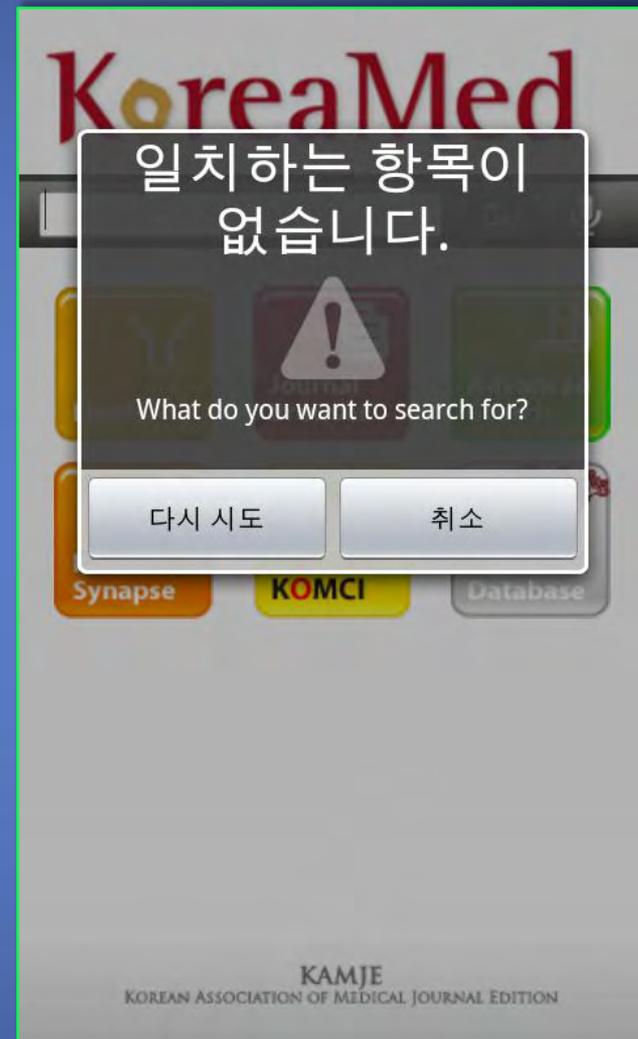
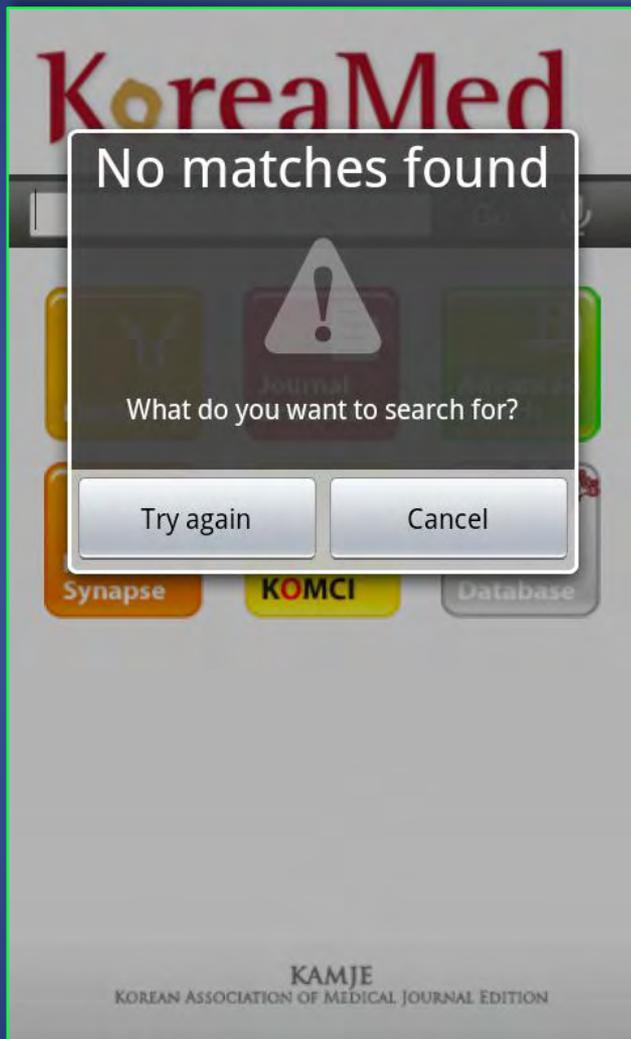
- Accuracy of dictation of voice search words greatly depends on the user's speech behaviors
- Better luck with longer words  
e.g., cancer vs. breast cancer
- Pull down list of search words/phrases to help picking complicated words

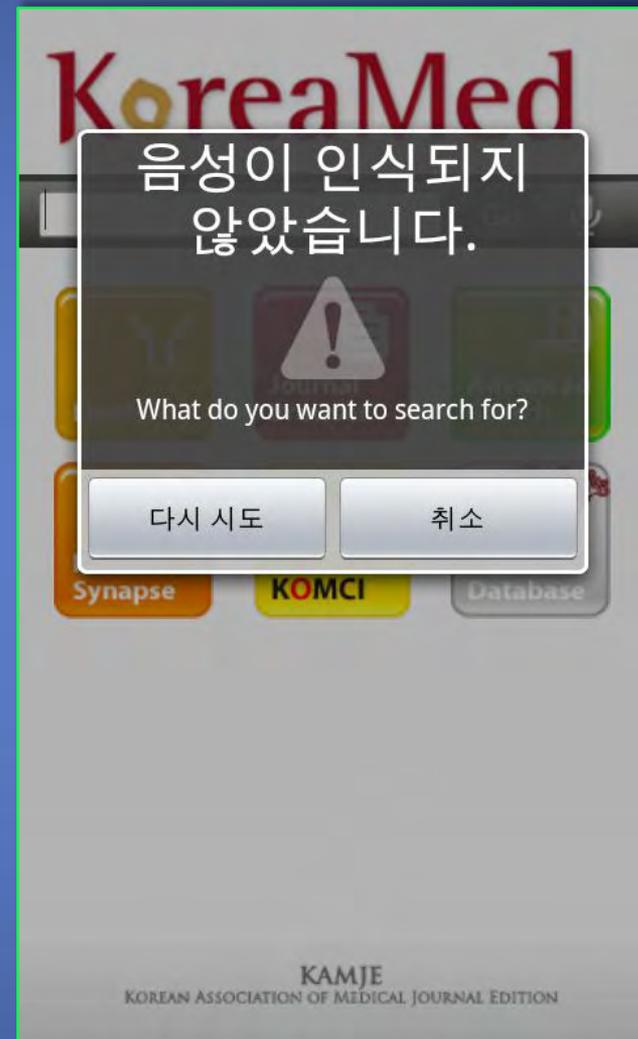
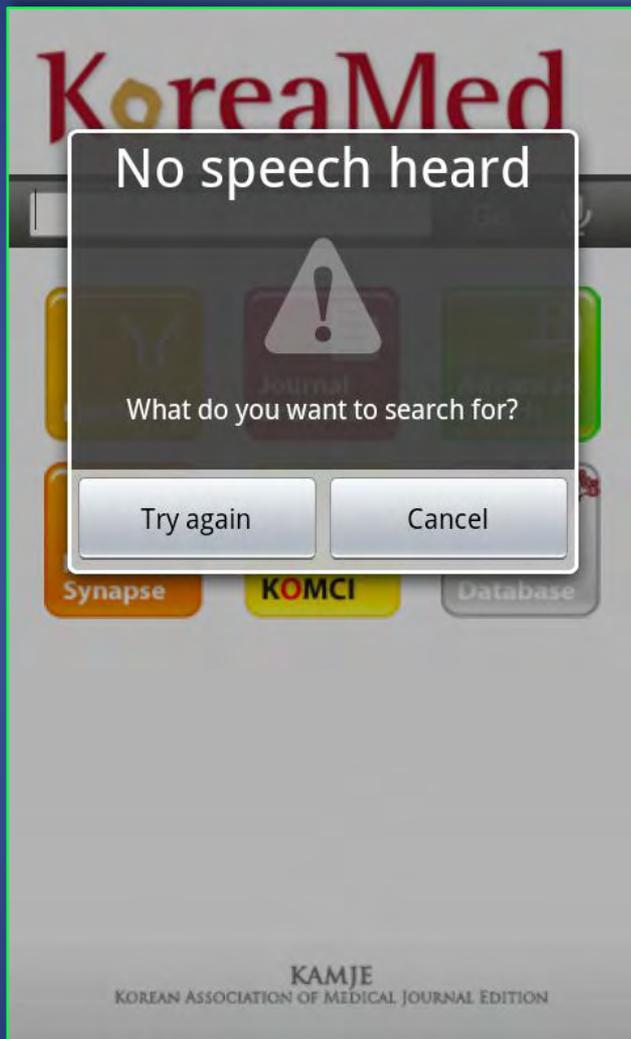
Android  
phone



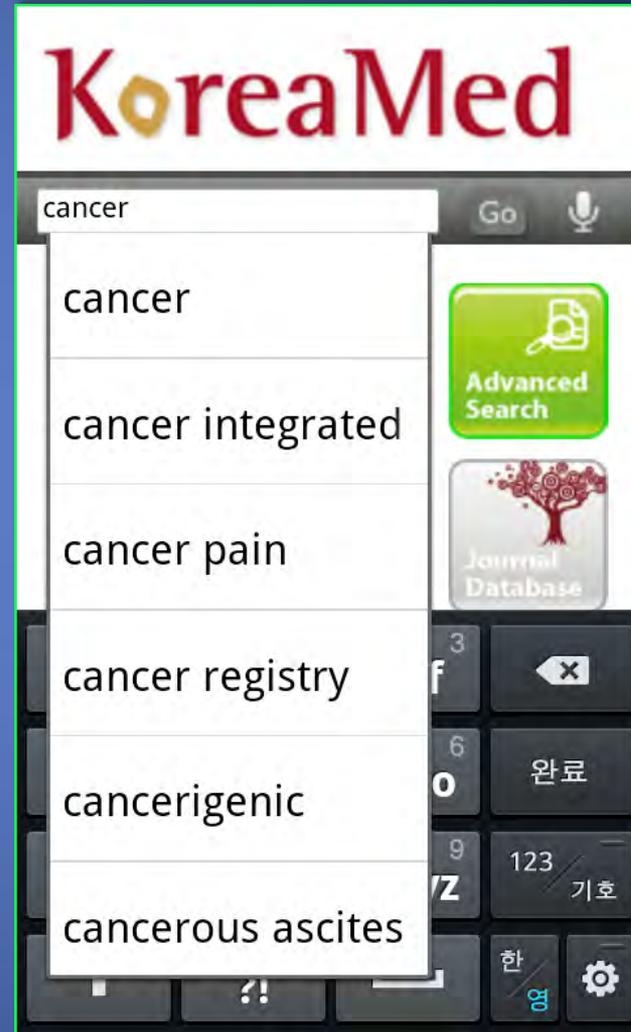
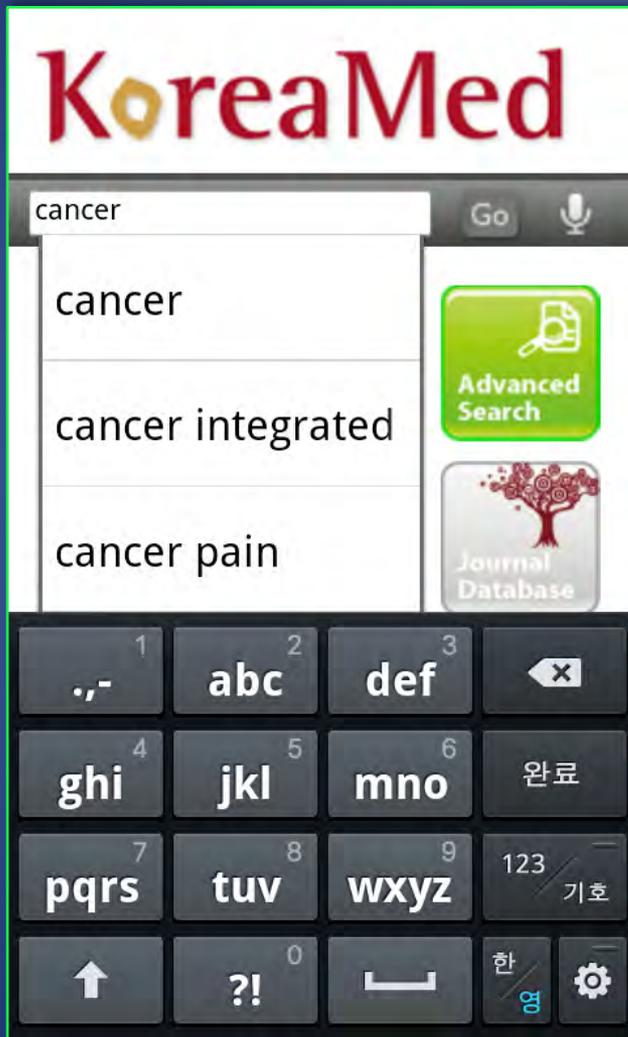








# Pull down list of KMA Medical Terminology, 5<sup>th</sup> ed.



# KoreaMed

cancer

Go



Limits



Journal Browser



Advanced Search



Koreamed Synapse



KOMCI



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Lee HS, Cheung DY, Kim JI, Cho SH, Park SH, Han JY, Kim JK.  
J Korean Med Sci. 2010 Oct;25(10):1518-1521. English. doi: 10.3346/jkms.2010.25.10.1518.
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Gut Liver. 2010 Sep;4(Suppl. 1):S99-S104. English. doi: 10.5009/gnl.2010.4.S1.S99.
7. [Multimodal Oncological Therapy Comprising Stents, Brachytherapy, and Regional Chemotherapy for Cholangiocarcinoma.](#)  
Andrasina T, Velek V, Panek J, Kala Z, Kiss I, Tucek S, Slampa P.  
Gut Liver. 2010 Sep;4(Suppl. 1):S82-S88. English. doi: 10.5009/gnl.2010.4.S1.S82.
8. [EUS-Guided Antitumor Therapy for Pancreatic Tumors.](#)  
Seo DW.  
Gut Liver. 2010 Sep;4(Suppl. 1):S76-S81. English. doi: 10.5009/gnl.2010.4.S1.S76.
9. [EUS-Guided Biliary Drainage.](#)  
Yamao K, Hara K, Mizuno N, Sawaki A, Hijioaka S, Niwa Y, Tajika M, Kawai H, Kondo S, Shimizu Y, Bhattia V.  
Gut Liver. 2010 Sep;4(Suppl. 1):S67-S75. English. doi: 10.5009/gnl.2010.4.S1.S67.
10. [Photodynamic Therapy for Cholangiocarcinoma.](#)  
Talreja JP, Kahaleh M.  
Gut Liver. 2010 Sep;4(Suppl. 1):S62-S65. English. doi: 10.5009/gnl.2010.4.S1.S62.

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Summary

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1. A Case of Spontaneous Regression of Advanced Gastric Cancer.

2. Regional Chemotherapy for Cholangiocarcinoma.  
Andrasina T, Vitek V, Párek J, Kalf Z, Kiss L, Tócsik S, Szampa P.  
Gut Liver. 2010 Sep;4(Suppl. 1):S82-S88. English. doi: 10.5009/gnl.2010.4.S1.S82

3. EUS-Guided Antitumor Therapy for Pancreatic Tumors.  
Seo DW.  
Gut Liver. 2010 Sep;4(Suppl. 1):S76-S81. English. doi: 10.5009/gnl.2010.4.S1.S76

4. EUS-Guided Biliary Drainage.  
Yamao K, Hara K, Mizuno N, Sawaki A, Hijoka S, Niwa Y, Tajika M, Kawai H, Kondo S, Shimizu Y, Bhatta V.  
Gut Liver. 2010 Sep;4(Suppl. 1):S67-S75. English. doi: 10.5009/gnl.2010.4.S1.S67

5. Photodynamic Therapy for Cholangiocarcinoma.  
Tafraa JP, Katoch M.  
Gut Liver. 2010 Sep;4(Suppl. 1):S62-S66. English. doi: 10.5009/gnl.2010.4.S1.S62

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1. *J Korean Med Sci.* 2010 Oct;25(10):1518-1521. English. doi: 10.3346/jkms.2010.25.10.1518.

**JKMS** **Synapse**

**A Case of Spontaneous Regression of Advanced Gastric Cancer.**

**Lee HS, Cheung DY, Kim JI, Cho SH, Park SH, Han JY, Kim JK.**

Division of Gastroenterology, Department of Internal Medicine, The Catholic University of Korea School of Medicine, Seoul, Korea.  
jkim488@yahoo.co.kr

**Abstract**  
An 84 yr-old male with a history of nausea and vomiting for 3 weeks was admitted to our hospital. Esophagogastroduodenoscopy showed the diffuse infiltrative type of gastric cancer encircling from the cardia to the lower body. On abdominal computerized tomography, the gastric wall was diffusely thickened with overlying mucosal enhancement without lymph node involvement. Histologic examination revealed poorly differentiated adenocarcinoma. So surgical resection was planned. However, patient refused all medical care, and then he was discharged. He lived without any medical support and then he revisited our hospital and showed relieved symptoms on the follow-up exam. On esophagogastroduodenoscopy, the gastric mucosa of the body looked normal without any dysplastic change. Abdominal CT revealed a decreased thickening of the gastric wall of the body. The histology from the endoscopic forceps biopsy showed no evidence of malignancy. The patient is alive without any sign of tumor recurrence after 14 months.

**Author Keywords:**

2. *J Korean Med Sci.* 2010 Oct;25(10):1443-1448. English. doi: 10.3346/jkms.2010.25.10.1443.

**JKMS** **Synapse**

**Preoperative Management for Predicting Extracapsular**

# Mobile Service Development Plans

## Phase 4

### 1. Mobile Optimization for Internet Access

- Interface design/Visual design
- Various hypertext links
- Search word/phrase auto completion
- Mobile specific bugs

### 2. Mobile Web (<http://m.koreamed.org>)

### 3. Voice Access/Search

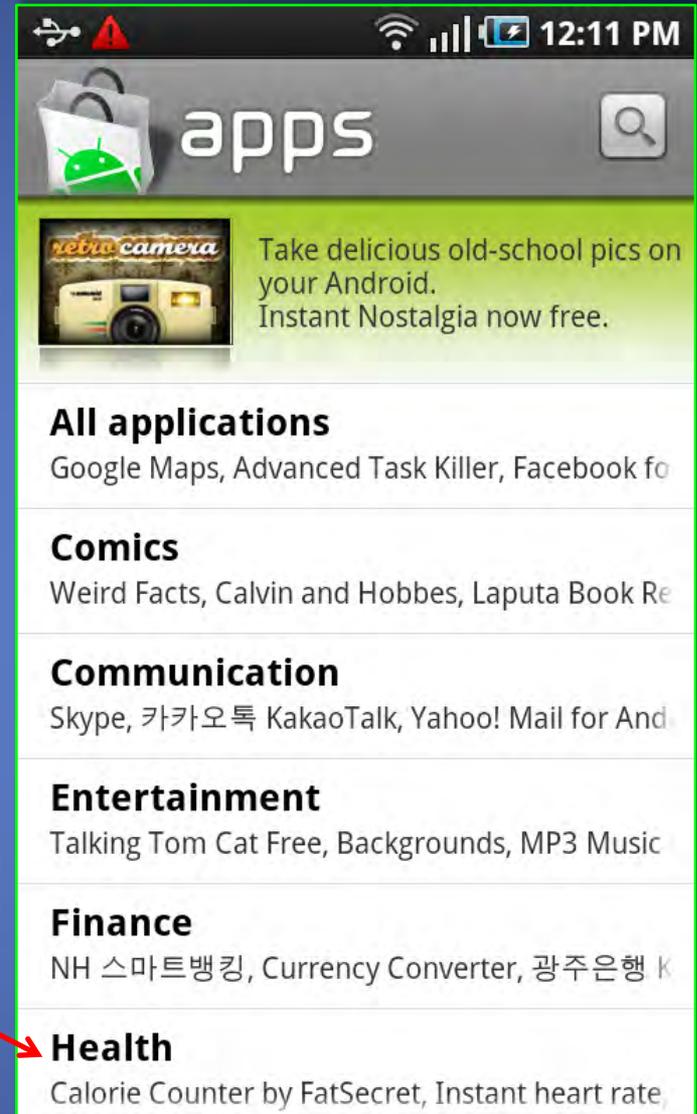
Began implementation with Android phone

### 4. App Service

- KoreaMed & Synapse Apps in Android market to be available by the end of Nov. 2010



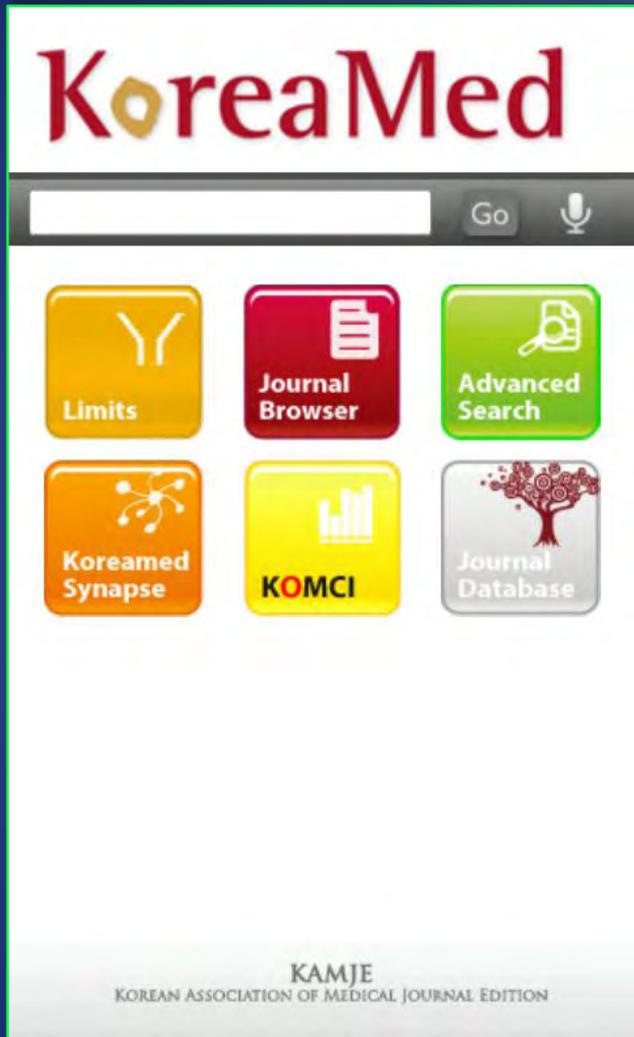
- App is required for the “voice access/search” application
- Will have apps for different mobile phones eventually



# TRIALS & ERRORS

- Portrait vs. landscape mode display
- Search word/phrase suggestion methods
- Pause before searching or flip over to searching immediately
- Redesign a new interface for mobile?

# Portrait vs. Landscape mode



# Portrait vs. Landscape mode



# Portrait vs. Landscape mode

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## Twofer for the Biggest Bioterror Threats?

By Martin Enserink

If you ask biodefense experts to name two diseases that keep them awake at night, there's a good chance they'll mention smallpox and anthrax. Both are highly lethal, and current vaccines have major problems. Now, researchers have found a way to target both threats at the same time: a candidate vaccine that protects against the two diseases and seems to work better than the existing preventatives.

# Search Word/Phrase Suggestion Methods

- Basic Search vs. Advanced search
- KMA Medical Terminology. 5<sup>th</sup> ed. vs. Other medical terminology resources e.g., MeSH terms
- Words suggestions by
  - Begin With
  - Key Words in Context
  - Word Frequency Ranks in KoreaMed database
  - Search Words Frequency (Popularity)

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Journal Browser  
Advanced Search  
Limits

Synapse

KoMGI  
Korean Medical Citation Index

Korean Medical Journal Information

WORLDWIDESCIENCE.ORG  
The Global Science Gateway

Search KoreaMed for breas **Go** **Clear** **Limits**

- breast
- breast-feeding
- breast augmentation
- breast cancer
- breast envy
- breast feeding
- breast flap
- breast implant
- breast milk
- breast pump
- breast reconstruction

ations. Use the **Journal Browse**

Medical Journal Editors (KAMJE) provide full text coverage is focused on the full text articles.

**Journal Browser**

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# KoreaMed

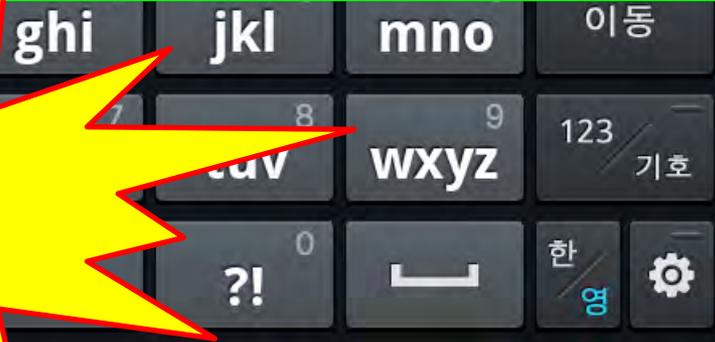
lung

- lung
- lung disease
- air-conditioner lung
- bauxite lung

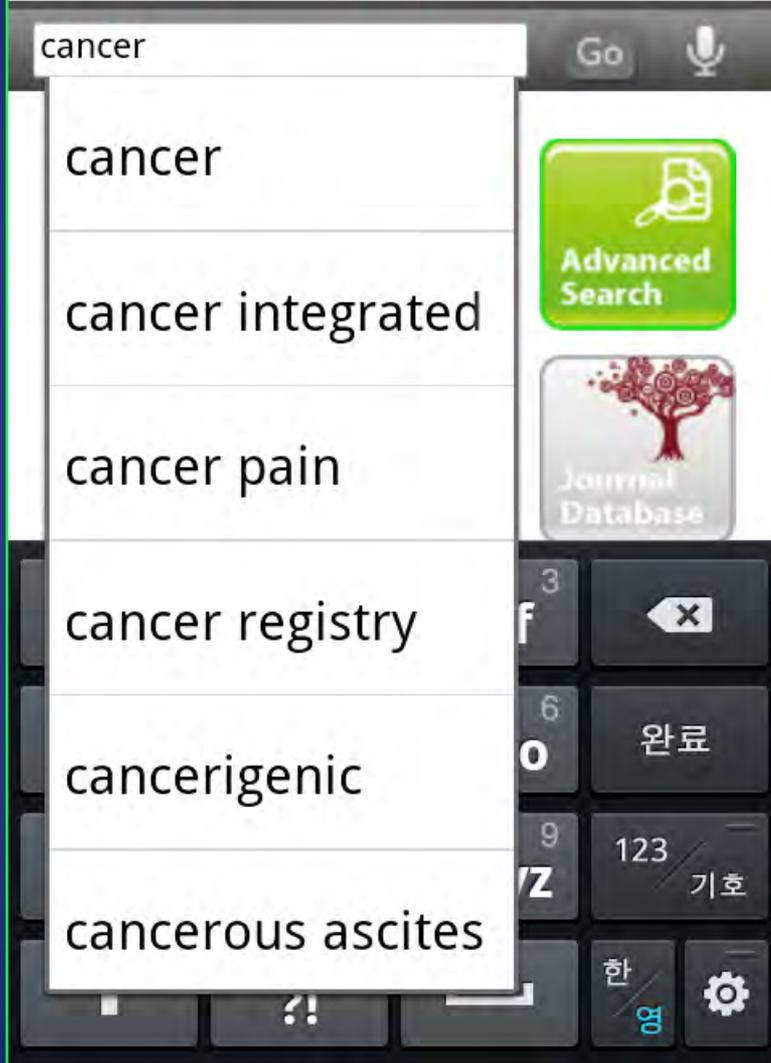
by Word Frequency Ranks  
of KoreaMed database

by Key Words in Context  
KMA Medical Terminology, 5<sup>th</sup> ed.

Often, words  
looking for are not  
in the suggested  
lists



# KoreaMed



Beginning with  
KMA Medical Terminology, 5<sup>th</sup> ed.

# KoreaMed

cancer

Go



Limits



Journal  
Browser



Advanced  
Search



Koreamed  
Synapse



KOMCI



Journal  
Database

Pause before searching so that a searcher can make sure the word/phrase is correct

Or, begin searching as soon as a word/phrase is dictated

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# Redesign for mobile?

- Bigger font size characters
- A new layout to fit in mobile screen
- Navigation (Move Back & forth)
- Save, Send via e-mail

In consideration, made some attempts,  
But not decided yet to go on



Bigger font size

Not much information to glance at



cancer [ALL]  

Display Abstract Save Text Ch

Show: 20 Items 1-20 of Page 1 of 15106 756 Select

- Summary
- Brief
- Abstract
- KoreaMed

1. *J Korean Med Sci.* 2010 Oct;25(10):1443-1448.  
English. doi: 10.3346/jkms.2010.25.10.1443.

3 Clinicopathological Significance of Expression of Tspan-1, Jab1 and p27 in Human Hepatocellular Carcinoma, Chen L, Yuan D, Wang GL, Wang Y, Wu YY, Zhu J

cancer [ALL]  

Display Abstract Save Text Ch

Show: 20 Items 1-20 of Page 1 of 15105 756 Select

1. *J Korean Med Sci.* 2010 Oct;25(10):1518-1521.  
English. doi: 10.3346/jkms.2010.25.10.1518.

**A Case of Spontaneous Regression of Advanced Gastric Cancer.**

**Lee HS, Cheung DY, Kim JI, Cho SH, Park SH, Han JY, Kim JK.**

Division of Gastroenterology,  
Department of Internal Medicine, The  
Catholic University of Korea School of  
Medicine, Seoul, Korea.  
jkkim488@yahoo.co.kr

cancer [ALL]

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Abstract

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Ch

Show: 20 Items 181- 200 of 15105 Page 10 of 756

181. *Clin Exp Otorhinolaryngol.* 2010 Jun;3(2):96-101. English. doi: 10.3342/ceo.2010.3.2.96.



### Treatment Results of Major Salivary Gland Cancer by Surgery with or without Postoperative Radiation Therapy.

Noh JM, Ahn YC, Nam H, Park W, Baek CH, Son YI, Jeong HS.

Department of Radiation Oncology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea.

cancer [ALL]

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Text

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uncheck All

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181. *Clin Exp Otorhinolaryngol.* 2010 Jun;3(2):96-101. English. doi: 10.3342/ceo.2010.3.2.96.



### Treatment Results of Major Salivary Gland Cancer by Surgery with or without Postoperative Radiation Therapy.

with complete resection, and is currently disease-free without adjuvant therapy. Although it is difficult to diagnose a hepatic cyst as a ULS due to its rare occurrence in adulthood and lack of specific findings, its possibility should be considered, especially when its size is increasing, because early diagnosis and curative resection are necessary for a favorable outcome.

 **MeSH Terms:**

 **Author Keywords:**

 **MeSH Terms:**

- Child
- Adult
- Male
- Female
- Humans

 **Author Keywords:**

- Adult
- Embryonal sarcoma
- Hydatid cyst
- Liver cyst
- Undifferentiated sarcoma

☑ **187.** *Gut Liver*. 2010 Jun;4(2):186-191. English. doi: [10.5009/gnl.2010.4.2.186](https://doi.org/10.5009/gnl.2010.4.2.186).



**Efficacy and Safety of  
Endoscopic Submucosal**

☑ **187.** *Gut Liver*. 2010 Jun;4(2):186-191. English. doi: [10.5009/gnl.2010.4.2.186](https://doi.org/10.5009/gnl.2010.4.2.186).



**Efficacy and Safety of  
Endoscopic Submucosal**

with complete resection, and is currently disease-free without adjuvant therapy. Although it is difficult to diagnose a hepatic cyst as a ULS due to its rare occurrence in adulthood and lack of specific findings, its possibility should be considered, especially when its size is increasing, because early diagnosis and curative resection are necessary for a favorable outcome.

#### MeSH Terms:

- Child
- **Adult**
- Male
- Female
- Humans

#### Author Keywords:

- Adult
- Embryonal sarcoma
- Hydatid cyst
- Liver cyst
- Undifferentiated sarcoma

"Adult" [MH]

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- ✓ **1** Consumer Awareness and Demand for Country-of-Origin Labeling at Restaurants: For Adults Who Live in Seoul.  
Ahn HJ, Park S, Joo N.  
J Korean Diet Assoc. 2010 Aug;16(3):255-269. Korean.
- ✓ **2** Body Mass Index in Patients with Early Posterior Tibial Tendon Dysfunction in Korea.  
Chung HW, Kim JI, Lee HD, Suh JS.  
J Korean Orthop Assoc. 2010 Aug;45(4):301-306. Korean. doi: 10.4055/jkoa.2010.45.4.301.
- ✓ **3** Clinical Analysis of Inguinal Hernia in Adult Using Prolene Hernia System.  
Lee WI, Kim HS, Ryu BY, Kim HK, Lee JW, Choi YH, Kim JB, Lee JS.  
J Korean Surg Soc. 2010 Aug;79(2):137-142. Korean. doi: 10.4174/jkss.2010.79.2.137.

**Limits**

Year(s)

All Years    1958 to Present

Species

Humans    Animals

Type of Article

- Brief Communication
- Case Reports
- Clinical Trial
- Comment
- Comparative Study
- Editorial
- Evaluation Studies
- In Vitro
- Letter

**Limits**

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All Years    1958 to Present

Languages

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Species

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Gender

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Type of Article

- Brief Communication
- Case Reports
- Clinical Trial
- Comment
- Comparative Study
- Editorial
- Evaluation Studies
- In Vitro
- Letter
- Meeting Abstract
- Meta-Analysis
- Multicenter Study
- Note
- Original Article
- Practice Guideline
- Published Erratum
- Randomized Controlled Trial
- Review
- Twin Study
- Validation Studies

Ages

- All Infant: birth-23 months
- All Child: 0-18 years
- All Adult: 19+ years
- Newborn: birth-1 month
- Infant: 1-23 months
- Preschool Child: 2-5 years
- Child: 6-12 years
- Adolescent: 13-18 years
- Young Adult: 19-24 years
- Adult: 19-44 years
- Middle Aged: 45-64 years
- Middle Aged + Aged: 45+ years
- Aged: 65+ years
- 80 and over: 80+ years

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Search limit option list goes down on and on

As of September 28, 2010, there are 164 journals.

ALL A - I J K L - Z

## Allergy, Asthma and Immunology Research

Allergy Asthma Immunol Res | 2092-7355

## Anatomy & Cell Biology

Anat Cell Biol | 2093-3665

## Anesthesia and Pain Medicine

Anesth Pain Med | 1975-5171

## Annals of Dermatology

Ann Dermatol | 1013-9087

## Asian Nursing Research

Asian Nurs Res | 1976-1317

## Asian Spine Journal

Asian Spine J | 1976-1902

## Cancer Research

Cancer Res Treat | 1598-2998

A long journal list  
to scroll down

Journal List > Allergy Asthma Immunol Res

## Journal History

**Allergy, Asthma and Immunology Research:  
2009 (v1 n1) to Present**

pISSN 2092-7355 eISSN 2092-7363

**Allergy, Asthma and Immunology Research:  
2009 (v1 n1) to Present**

### 2010



v2 n1  
Jan



v2 n2  
Apr



v2 n3  
Jul



v2 n4  
Oct

### 2009



v1 n1

# Journal of Korean Epilepsy Society

J Korean Epilepsy Soc | 1226-6965

# Journal of Korean Foot and Ankle Society

J Korean Foot Ankle Soc | 1738-3757

# Journal of Korean Geriatric Psychiatry

J Korean Geriatr Psychiatry | 1226-6329

# Journal of Korean Knee Society

J Korean Knee Soc | 1225-1623

# Journal of Korean Medical Science

J Korean Med Sci | 1011-8934

# Journal of Korean Neurosurgical Society

J Korean Neurosurg Soc | 2005-3711

# Journal of Korean Oncology Nursing

J Korean Oncol Nurs | 1598-4559

# Journal of Korean Orthopaedic

Journal List > J Korean Med Sci

## Journal History

**Journal of Korean Medical Science: 1986 (v1 n1) to Present**

pISSN 1011-8934 eISSN 1598-6357

**Journal of Korean Medical Science: 1986 (v1 n1) to Present**

### 2010



Too many issues to list

# Navigations too complicated

The screenshot shows the KoreaMed website interface. At the top, there is a search bar with a 'Go' button and a microphone icon. Below the search bar, the 'KoreaMed' logo is displayed. A navigation menu on the left side includes links for 'About KoreaMed', 'Overview', 'Help', 'Disclaimer', 'KoreaMed Services', 'Basic Search', 'Journal Browser', 'Advanced Search', and 'Limits'. The main content area displays search results for 'English, All Infant: birth-23 months'. The results list seven items, each with a title, authors, and publication details. At the bottom of the page, a 'Main Menu' label is highlighted with a red box. A red arrow points from this label to the right-hand screenshot.

The screenshot shows a simplified version of the KoreaMed website. The top features the 'KoreaMed' logo and a search bar with a 'Go' button and a microphone icon. Below the search bar, there is a grid of six large, colorful buttons: 'Limits' (orange), 'Journal Browser' (red), 'Advanced Search' (green), 'Koreamed Synapse' (orange), 'KOMCI' (yellow), and 'Journal Database' (grey). At the bottom, the 'KAMJE KOREAN ASSOCIATION OF MEDICAL JOURNAL EDITION' logo is displayed.

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10월 05, 2010

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Na Li, Xiaoliang Ma, Qingfang Zha and Chunshan Song  
13 hours ago Energy Fuels

**Polymerized Ionic Liquid Sorbents for CO2 Separation**  
Azadeh Samadi, Ruben K. Kemmerlin and Scott M. Husson  
13 hours ago Energy Fuels

**Trapping of Hepatitis B Virus Capsid Assembly Intermediates by Phenylp...**  
Sarah P. Katen, Srinivas Reddy Chirapu, M. G. Finn and Adam Zlotnick

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Na Li, Xiaoliang Ma, Qingfang Zha and Chunshan Song

All Journals

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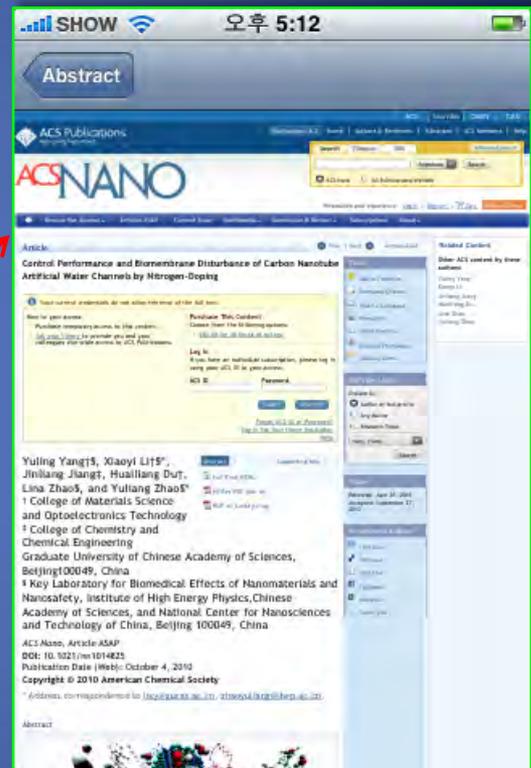
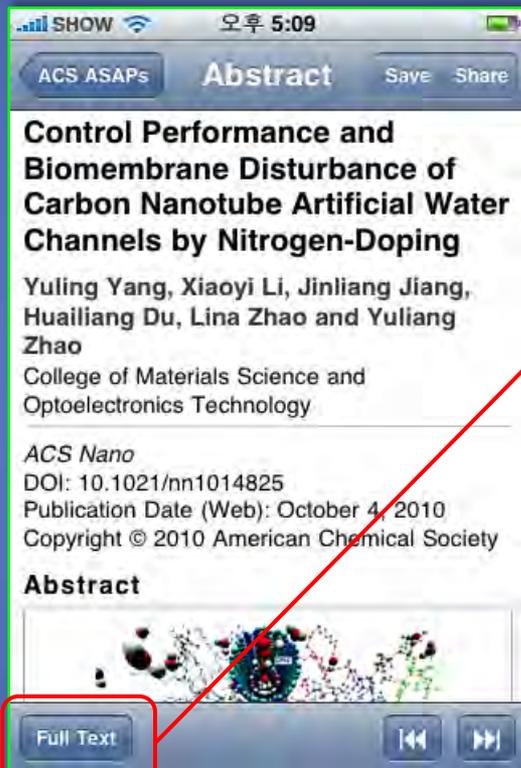
ACS Nano

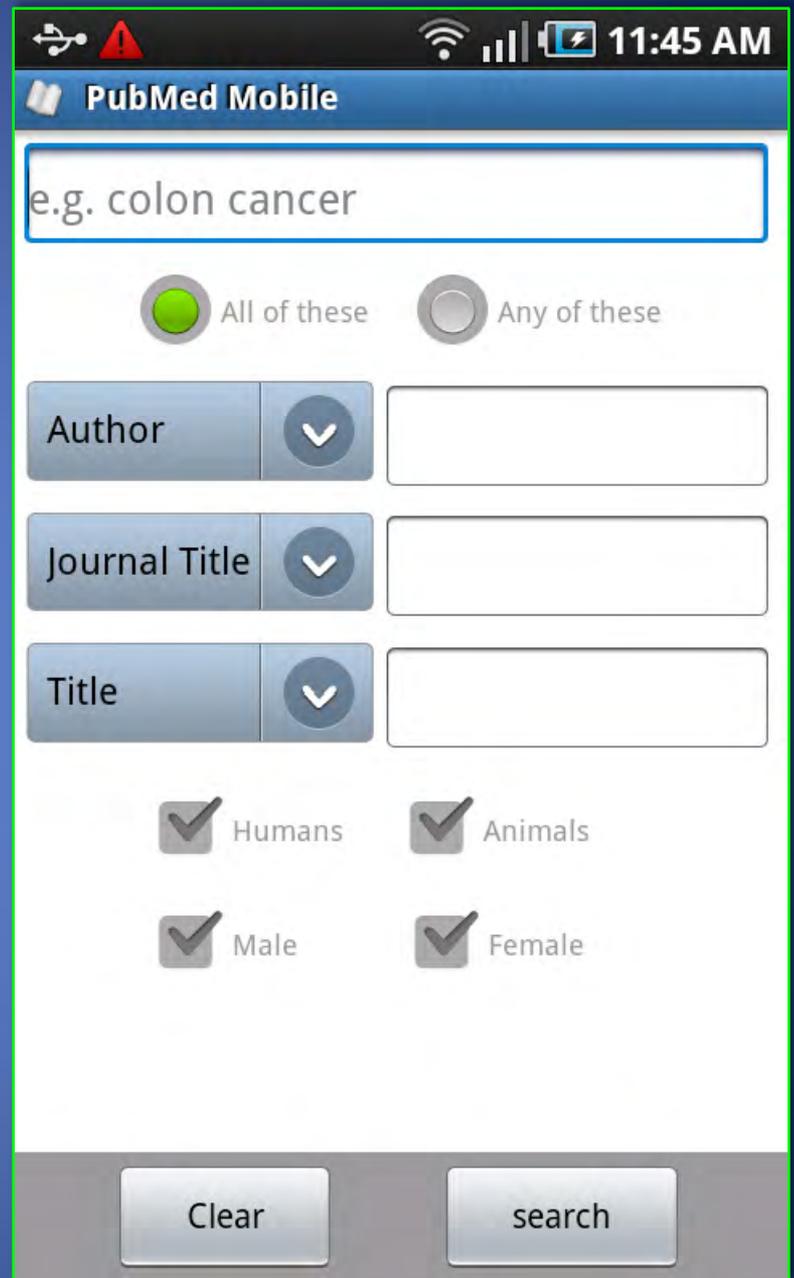
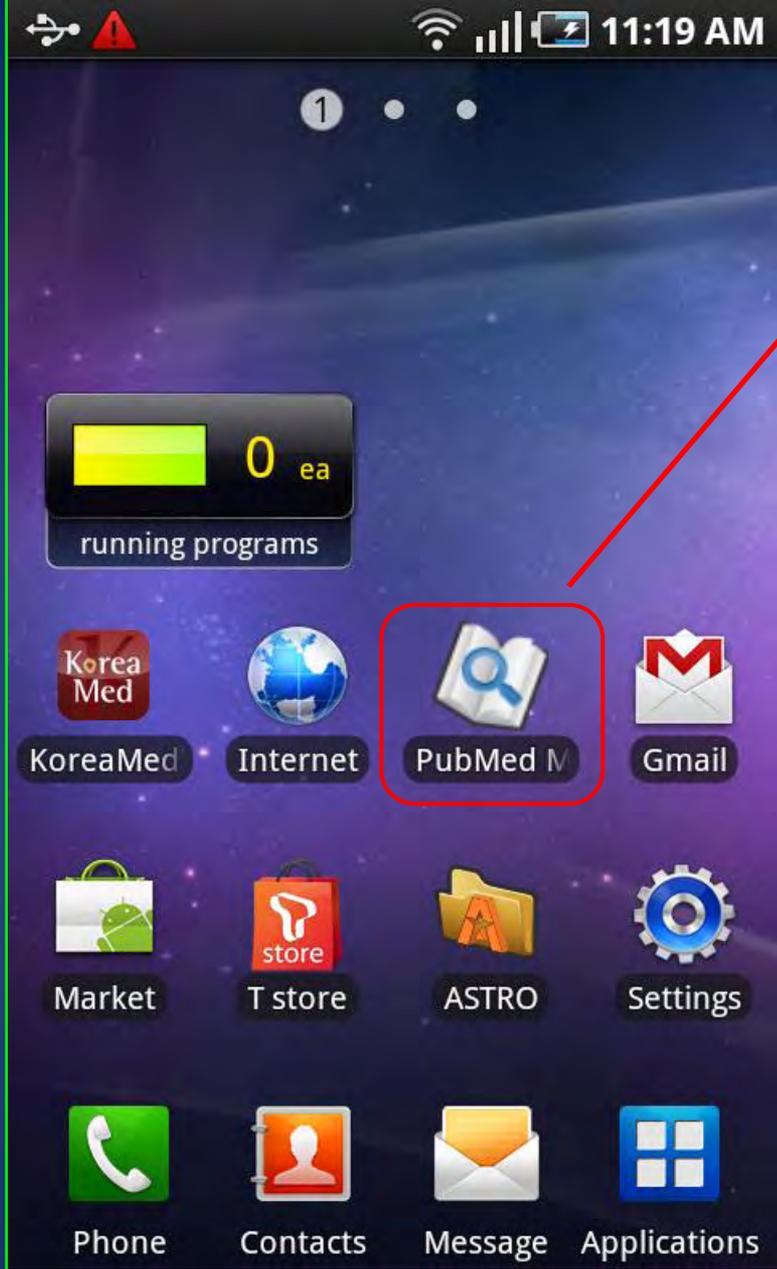
Acc. Chem. Res.

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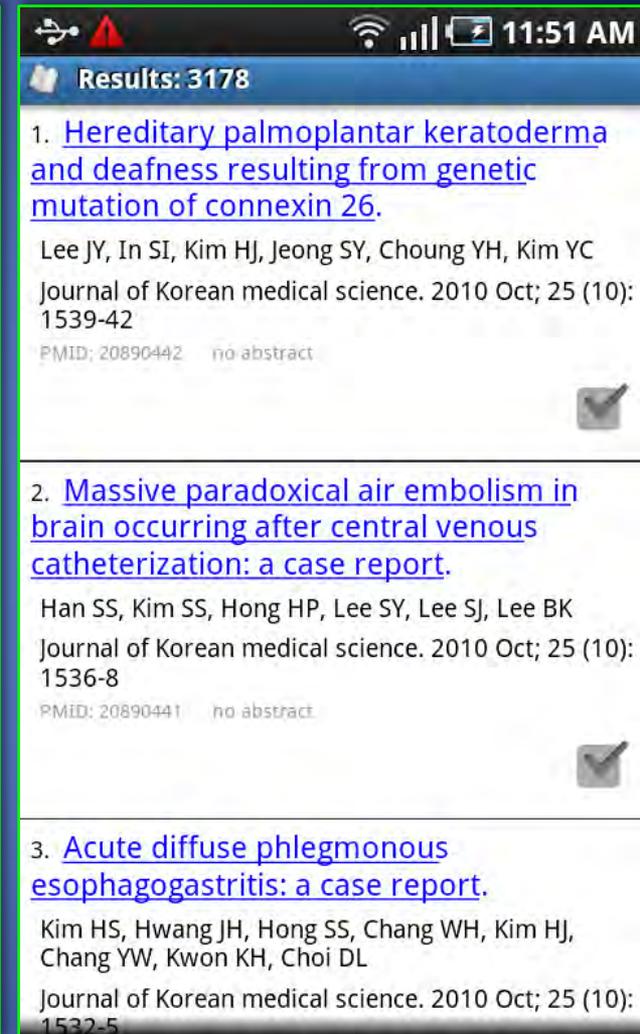
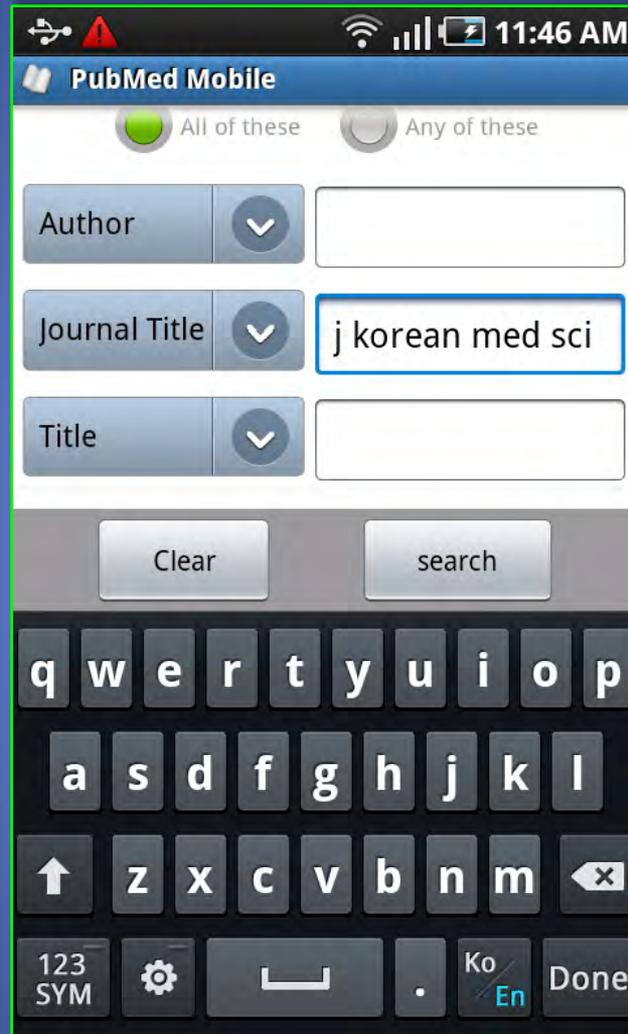
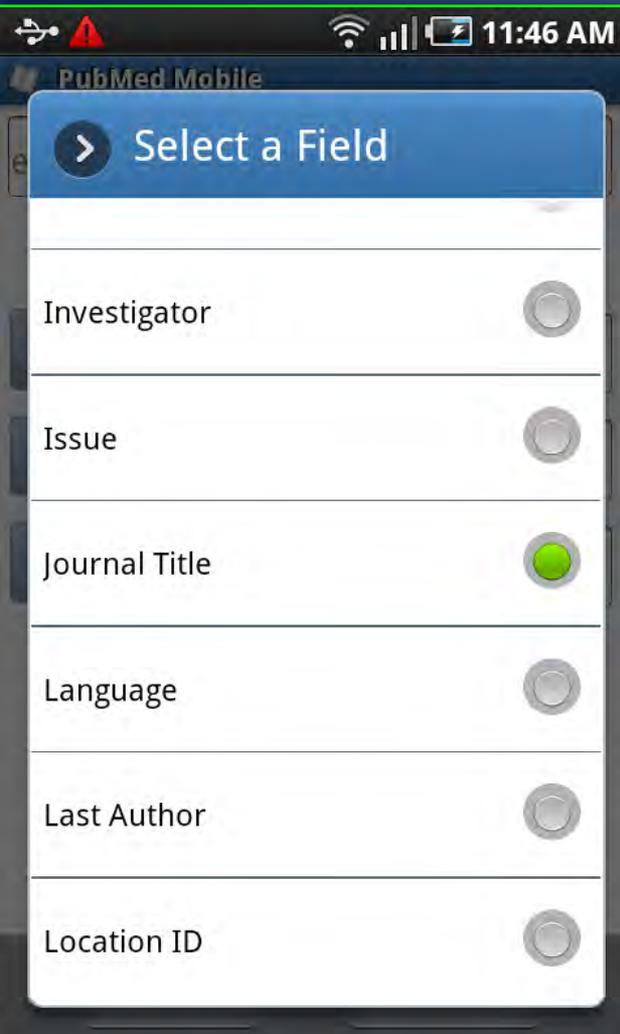
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Jump to website





# Much complex navigations/interfaces



# FUTURE PLANS/REMARKS

# Overall

## What's new in 2010

- Redesigned Interfaces
  - Journal Browser/Abstract Record
  - Various hypertext links/Color enhancements
- MeSH indexing/Search Limits
- Cited by/Citing articles
- Search Words Auto Completion

Features other databases might already have,  
but new for KoreaMed & Synapse!

# It turns out to be

- All things added up to prepare for/adapt to mobile services smoothly & easily



# Search made easy for users

- Simple, Intuitive, Attractive

One Search word into a search box

→ Click Click (Tap Tap)

by providing lots of hypertext links,  
along with vivid visuals

# Thanks to the mobile service development efforts

- Enhancements of KoreaMed & Synapse interfaces in PC environments were automatically achieved
- Was a good opportunity to diagnose “as-is” of the systems and to move forward for the next generation of STI database platforms
- Repurposing! (Prototyping!)

- Expects very pleasant landing on iPad (Tablet PCs) too
- Will probably use mobile app as a front end to attract or induce full database searching
  - Quick look-up
  - News
  - Early publication of articles
  - Special features

Thank you!