

ClinicalKey 2.0

User Guide

Presented by: Elsevier Korea Health Solution

Update date: April, 2015

Agenda

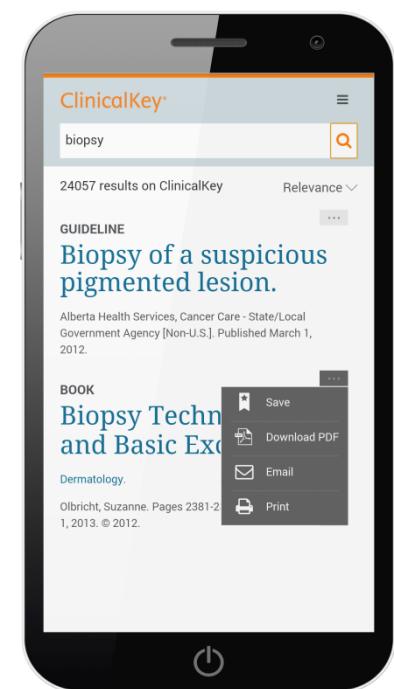
- Solution Overview
- Register / Login
- Page Overview
- Content Overview
- Personal Features
- Rights Link®



Solution Overview



- **Fast:** Smart Search
- **Complete:** Continuously updated content
- **Convenient:** Mobile optimized
- **Trusted:** Authoritative content backed by Elsevier



ClinicalKey®

Solution Overview



Includes the latest books, journals, images and video



Covers virtually every medical and surgical specialty



Content is continuously updated and always current

Solution Overview

1

Empowering consistently safe, cost-efficient care



2

Getting more time to spend with patients



3

Developing top talent



4

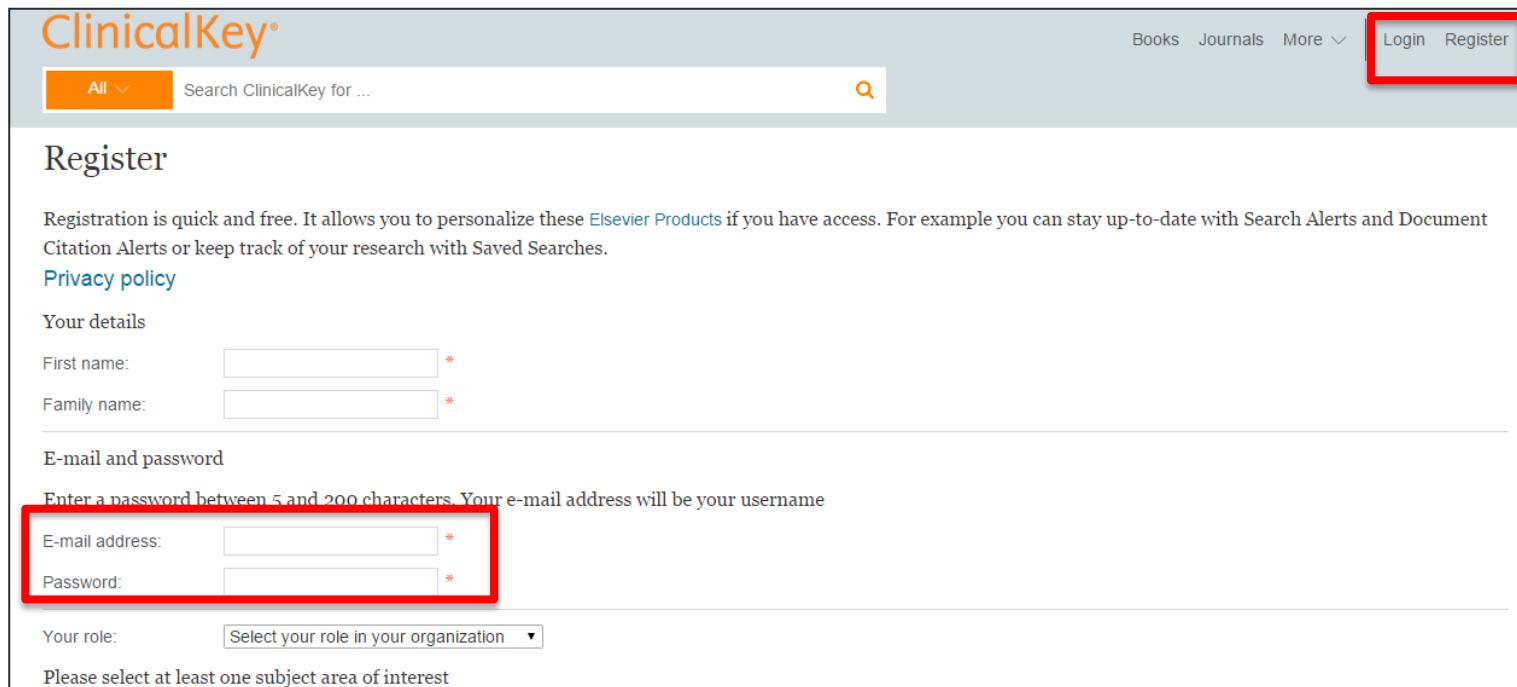
Reducing procurement cost



Solution Overview

✓ 1,000+ reference books	✓ 850+ First Consult monographs
✓ 600+ medical journals	✓ 2,900+ drug monographs
✓ 17,000+ medical / surgical videos	✓ 4,500+ practice guidelines
✓ 300+ Procedures Consult videos	✓ 15,000+ patient education handouts
✓ Over 2.2 million images	✓ ClinicalTrials.gov database
✓ 1,400+ Topic Pages	✓ Fully indexed MEDLINE

Register / Login



ClinicalKey®

All

Books Journals More ▾

Register

Registration is quick and free. It allows you to personalize these [Elsevier Products](#) if you have access. For example you can stay up-to-date with Search Alerts and Document Citation Alerts or keep track of your research with Saved Searches.

[Privacy policy](#)

Your details

First name: *

Family name: *

E-mail and password

Enter a password between 5 and 200 characters. Your e-mail address will be your username

E-mail address: *

Password: *

Your role:

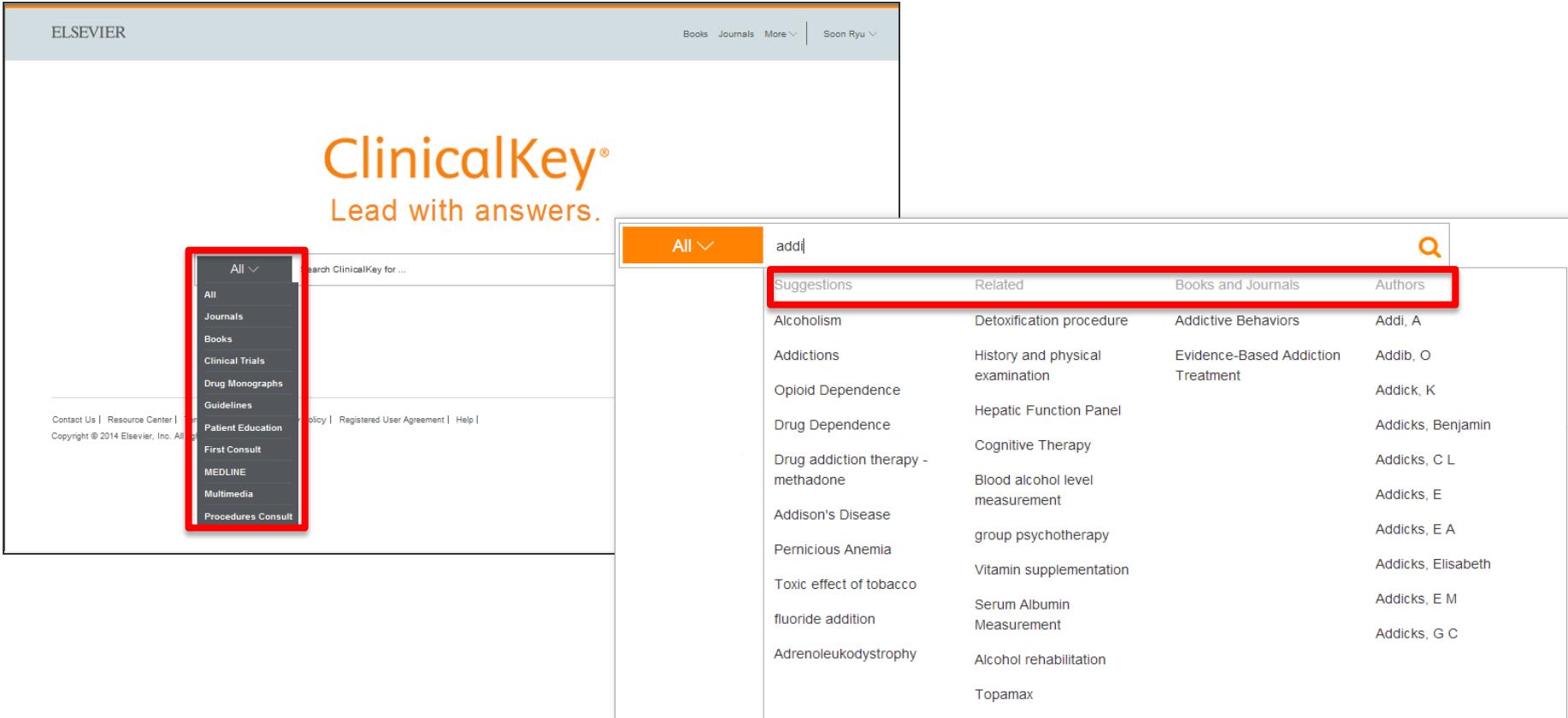
Please select at least one subject area of interest

- **Personal Features**

- e-Book PDF download
- Saved Content
- Search History
- Presentation maker

Page Overview - Main Page

- Filter by contents type, Auto Suggest Search



The screenshot shows the ClinicalKey main page. At the top, there is a navigation bar with the Elsevier logo, a search bar, and user account information. The main header reads "ClinicalKey® Lead with answers." Below the header is a search bar with the placeholder "Search ClinicalKey for ...". To the left of the search bar is a vertical sidebar with a red border, containing a list of content types: All, Journals, Books, Clinical Trials, Drug Monographs, Guidelines, Patient Education, First Consult, MEDLINE, Multimedia, and Procedures Consult. The "All" option is selected. To the right of the search bar is a search results table with a red border. The table has four columns: Suggestions, Related, Books and Journals, and Authors. The "Suggestions" column lists medical topics, and the other three columns provide related information and author names. The search term "addi" is entered in the search bar.

Suggestions	Related	Books and Journals	Authors
Alcoholism	Detoxification procedure	Addictive Behaviors	Addi, A
Addictions	History and physical examination	Evidence-Based Addiction Treatment	Addib, O
Opioid Dependence	Hepatic Function Panel		Addick, K
Drug Dependence	Cognitive Therapy		Addicks, Benjamin
Drug addiction therapy - methadone	Blood alcohol level measurement		Addicks, C L
Addison's Disease	group psychotherapy		Addicks, E
Pernicious Anemia	Vitamin supplementation		Addicks, E A
Toxic effect of tobacco	Serum Albumin Measurement		Addicks, Elisabeth
fluoride addition	Alcohol rehabilitation		Addicks, E M
Adrenoleukodystrophy	Topamax		Addicks, G C

Page Overview - Topic Page

- +1,400 disease overview
- Specialty Views, Related Drugs/Patient education/Guidelines, Latest articles

The screenshot shows the ClinicalKey topic page for Atrial Fibrillation. The page has a header with a search bar (All dropdown set to 'All', search term 'atrial fibrillation', and a search icon). Below the header, the title 'Atrial Fibrillation' is displayed with a 'PHYSICIAN' label. A sidebar on the left lists 'DISEASE OVERVIEW' topics: Definition, Etiology, Diagnosis, Differential Di, Imaging Stud, Treatment, Prognosis, and View chapter. The main content area shows 'Ferri's Clinical Advisor 2015' as the primary source, with 'Conn's Current Therapy 2015', 'Goldman's Cecil Medicine', and 'First Consult' as secondary sources. A 'More Results' button with a search icon is also present. To the right, a 'Specialty Views' section is highlighted with a red box, containing 'Clinical Care Medicine' and a list item 'Supraventricular Arrhythmias' with a 'Textbook of Critical Care' link. Below this is a 'Related Drugs' section with a 'More' link. The bottom of the page includes a 'Top of Page' link, a 'Related Guidelines' button, and a copyright notice: 'Copyright © 2014, 2014 by Mosby, an imprint of Elsevier Inc.' and a note about AF classification categories. The ClinicalKey logo is at the bottom right.

Page Overview - Result Pages

- More result → Sort by Relevance/Date and Filter by source, study, specialties, date

The screenshot shows the ClinicalKey search results for the query "atrial fibrillation". The search bar at the top contains the text "atrial fibrillation". Below the search bar, there are four filter dropdowns: "Source Type", "Study Type", "Specialties", and "Date", all of which are highlighted with a red box. To the right of these filters are icons for bookmark, print, email, and copy. Below the filters, a checkbox indicates "23874 results". To the right of the results count is a "Sort by" dropdown set to "Relevance", also highlighted with a red box. The main content area displays a "FIRST CONSULT" article titled "Atrial fibrillation" by Ramin Davoudi, MD. The article was published on February 26, 2014, and last updated on July 30, 2012. Below the article, there is a "FULL TEXT ARTICLE" section titled "Management of Patients With Atrial Fibrillation (Compilation of 2006 ACCF/AHA/ESC and 2011 ACCF/AHA/HRS Recommendations)" with a PDF icon. The article is from JACC (Journal of the American College of Cardiology). The authors listed are Anderson, Jeffrey L., MD, FACC, FAHA; Halperin, Jonathan L., MD, FACC, FAHA; Albert, Nancy M., PhD, CCNS, CCRN. The article was published in the American College of Cardiology Foundation and the American Heart Association, Inc. on May 7, 2013, in Volume 61, Issue 18, pages 1935-1944. At the bottom right of the page is a "Help & Feedback" button.

Page Overview - Contents Pages

- Search by This page, This Book, This article, This issue, This chapter / Outline
- Saved content, Print, Email

The image displays two side-by-side screenshots of the ClinicalKey platform. Both screenshots show search results for the term "myocarditis".

Left Screenshot (Search Results for 'myocarditis'):

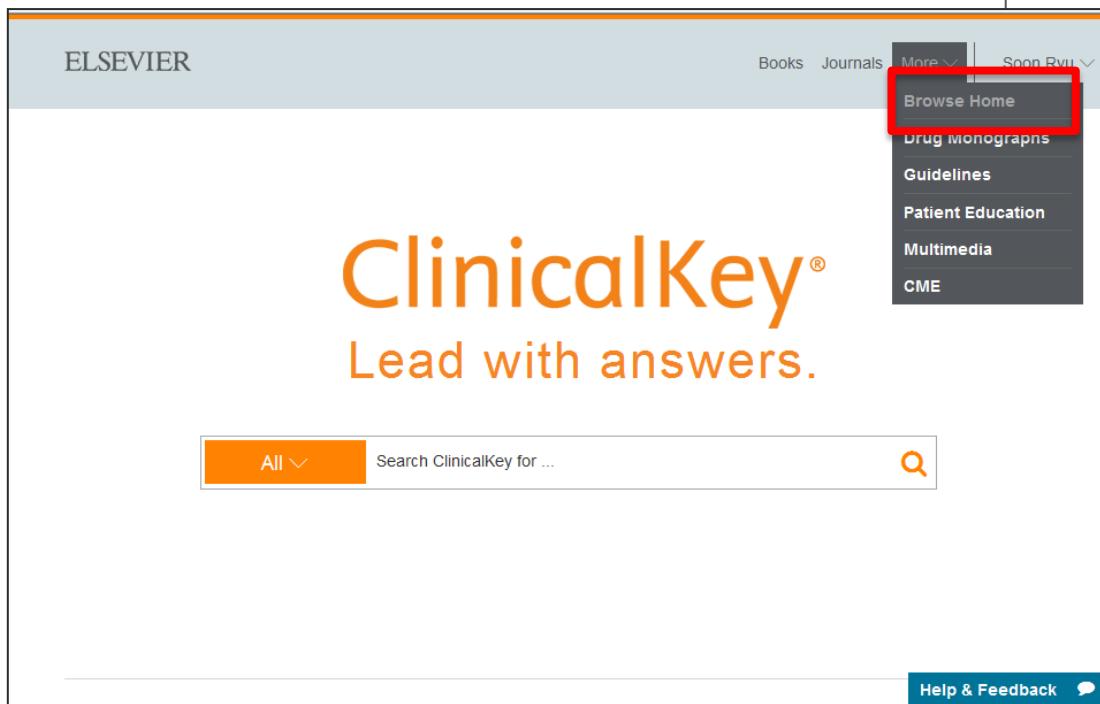
- Left Sidebar:** Shows a navigation menu with "All" dropdown, "This Page", "This Book", and a list of categories: Books, Journals, Clinical Trials, Drug Monographs, Guidelines, Patient Education, First Consult, MEDLINE, Multimedia, and Procedures Consult.
- Search Bar:** Contains the search term "myocarditis" and a search icon.
- Content Area:** Displays a "BOOK CHAPTER" titled "Myocarditis" by Leslie T. Cooper and Kirk U. Knowlton from "Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine".
- Right Sidebar:** Includes "Books", "Journals", "More", "Soon Ryu", and a "CME" section with icons for print, email, and download.

Right Screenshot (Search Results for 'myocarditis'):

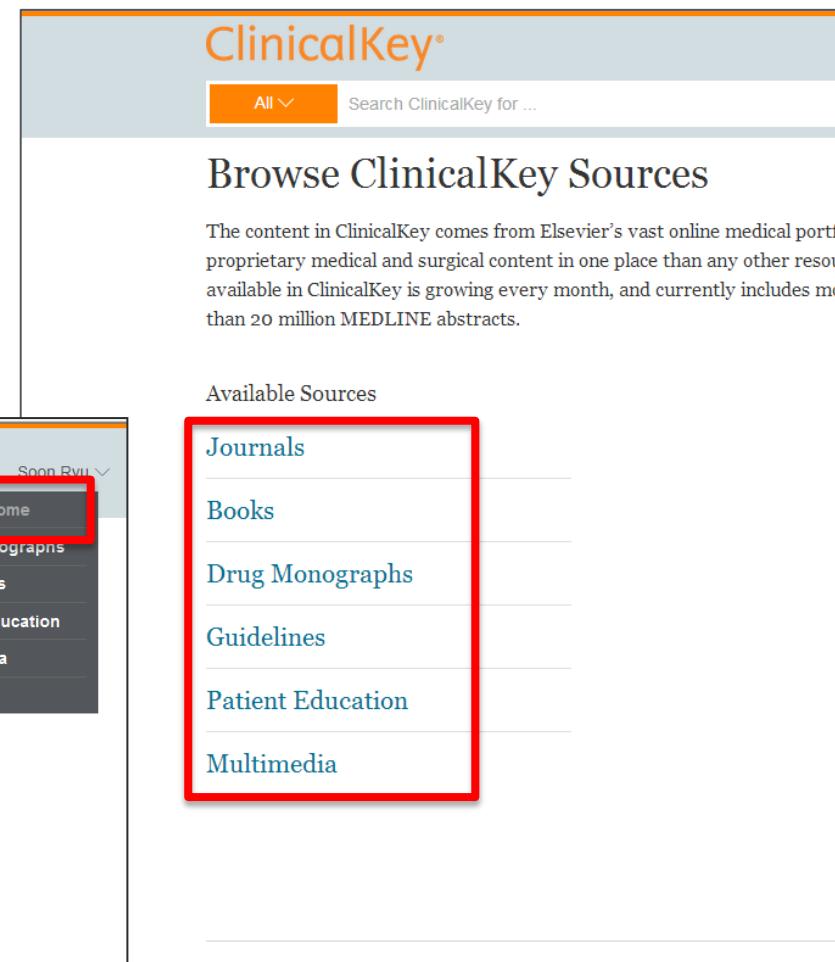
- Left Sidebar:** Shows a navigation menu with "Outline" dropdown, "Overview and Definition", "Epidemiology", "Specific Etiologic Agents", and a list of agents: Viruses, Bacteria, Protozoa, Helminths, Physical Agents including Adverse Drug Effects, and Additional Physical Agents.
- Search Bar:** Contains the search term "myocarditis" and a search icon.
- Content Area:** Displays a "BOOK CHAPTER" titled "Myocarditis" by Leslie T. Cooper and Kirk U. Knowlton from "Braunwald's Heart Disease: A Textbook of Cardiovascular Medicine".
- Right Sidebar:** Includes "Books", "Journals", "More", "Soon Ryu", and a "CME" section with icons for print, email, and download.

Page Overview - Browse Pages

- Book, Journal
- More(Browse Home)
- Drug, Guidelines, Patient Education, Multimedia



The screenshot shows the ClinicalKey homepage. At the top, there is a navigation bar with 'Books', 'Journals', 'More', and 'Soon'. Below this is a search bar with the placeholder 'Search ClinicalKey for ...' and a magnifying glass icon. The main content area features the ClinicalKey logo and the tagline 'Lead with answers.' A dropdown menu is open under the 'More' button, listing 'Browse Home' (which is highlighted with a red box), 'Drug Monographs', 'Guidelines', 'Patient Education', 'Multimedia', and 'CME'. At the bottom of the page is a 'Help & Feedback' button.



The screenshot shows the 'Browse ClinicalKey Sources' page. At the top, there is a search bar with the placeholder 'Search ClinicalKey for ...' and a dropdown menu set to 'All'. The main content area is titled 'Browse ClinicalKey Sources' and contains a paragraph about the content's origin. Below this is a section titled 'Available Sources' with a red box around it. This section lists 'Journals', 'Books', 'Drug Monographs', 'Guidelines', 'Patient Education', and 'Multimedia', each with a horizontal line below it.

Content Overview – Books & Journals

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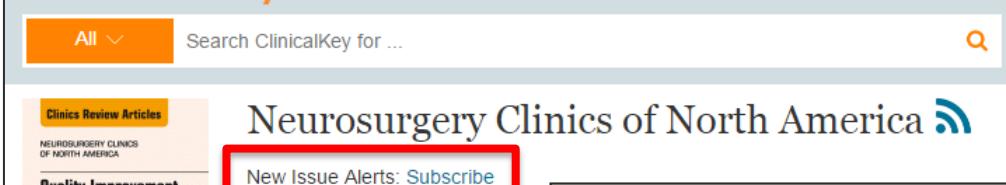
Abeloff's Clinical Oncology, Fifth Edition

Niederhuber, John E., MD
Copyright © 2014 by Churchill Livingstone, an imprint of Elsevier Inc.

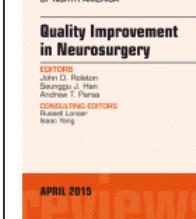
Table of Contents

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- Copyright
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- Contributors
- 1. Molecular Tools in Cancer Research
- 2. Intracellular Signaling

ClinicalKey®



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APRIL 2015

Current Issue
2015-4-1, Volume 26,
Issue 2

Journal Volumes:

- Volume 26 (2015)
 - Issue 2, April
 - Issue 1, January

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Go to: [Outline](#)

Key points

Introduction

Discussion

Hospital Inpatient Quality Reporting Program

Hospital Value-Based Purchasing Program

Readmission Reduction Program

FULL TEXT ARTICLE
The Relationship Between National Health Care Policies and Quality Improvement in Neurosurgery

Rachel Groman MPH
Neurosurgery Clinics of North America, 2015-04-01, Volume 26, Issue 2, Pages 167-175, Copyright © 2015 Elsevier Inc.

Get rights and content

Although federal programs aimed at improving the overall value of health care are well intentioned, most remain fundamentally flawed in terms of their metrics, their methodologies, and the pace at which they are being implemented. Without a serious reevaluation of these strategies, these programs will, at best, have limited effectiveness, and, at worst, lead to critical deteriorations in patient quality, safety, and access to care.

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Content Overview – Clinical Trials

- Purpose, Eligibility, Contacts and Locations, More Information (ClinicalTrials.gov)

The screenshot shows the ClinicalKey interface with a clinical trial record. The trial is titled "High Resolution Imaging of Cerebral Vasculature by Functional Micro-Doppler Sonography During Brain Surgery". The trial is described as a "CLINICAL TRIAL" and is currently "Recruiting". It is a "Partial Drug-resistant Epilepsy" study, phase N/A, and type Interventional. The trial was first received on January 28, 2014, and last updated on February 27, 2015. The ClinicalTrials.gov Identifier is NCT02090569, and it is funded by France: Ministry of Health.

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Clinical Trials Neurosurgery

Go to:

Purpose
Eligibility
Contacts and Locations
More Information

CLINICAL TRIAL

High Resolution Imaging of Cerebral Vasculature by Functional Micro-Doppler Sonography During Brain Surgery

First received on January 28, 2014. Last updated on February 27, 2015.

Go to:

Purpose
Eligibility
Contacts and Locations
More Information

Sponsors and Collaborators

More Information
Official Website of Optogenetics and Brain Imaging research group

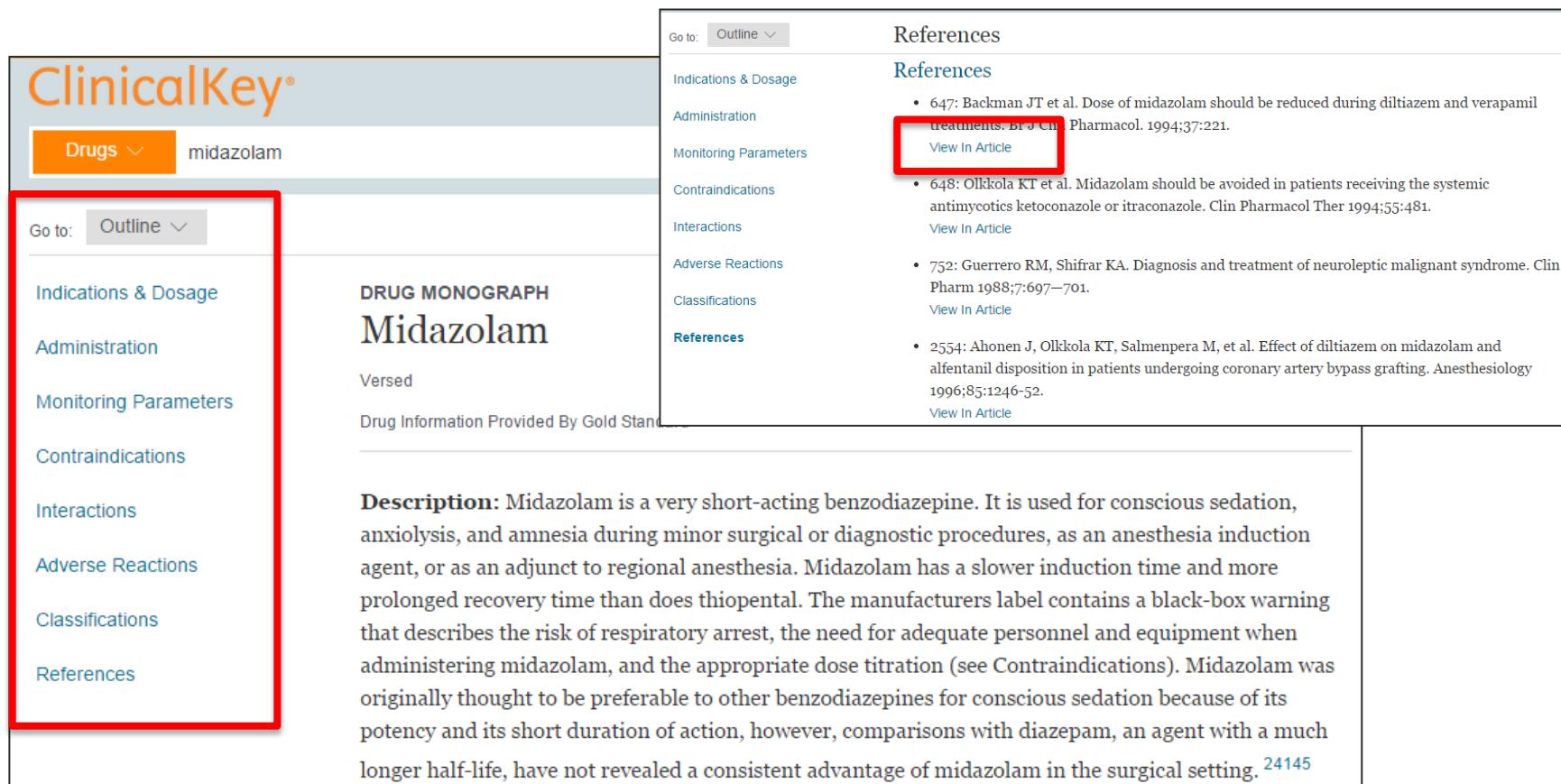
Other Publications

First Received:	January 28, 2014
Last Updated:	February 27, 2015
ClinicalTrials.gov Identifier:	NCT02090569
Health Authority:	France: Ministry of Health

ClinicalTrials.gov processed this data on March 03, 2015 [Link to the current ClinicalTrials.gov record](#).

Content Overview – Drug Monographs

- Indications, Dosage, Administration, Interactions, References



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Drugs midazolam

Go to: Outline ▾

Indications & Dosage

Administration

Monitoring Parameters

Contraindications

Interactions

Adverse Reactions

Classifications

References

DRUG MONOGRAPH

Midazolam

Versed

Drug Information Provided By Gold Stand

References

References

- 647: Backman JT et al. Dose of midazolam should be reduced during diltiazem and verapamil treatments. *Br J Clin Pharmacol.* 1994;37:221.
[View In Article](#)
- 648: Olkkola KT et al. Midazolam should be avoided in patients receiving the systemic antimycotics ketoconazole or itraconazole. *Clin Pharmacol Ther* 1994;55:481.
[View In Article](#)
- 752: Guerrero RM, Shifrar KA. Diagnosis and treatment of neuroleptic malignant syndrome. *Clin Pharm* 1988;7:697–701.
[View In Article](#)
- 2554: Ahonen J, Olkkola KT, Salmenpera M, et al. Effect of diltiazem on midazolam and alfentanil disposition in patients undergoing coronary artery bypass grafting. *Anesthesiology* 1996;85:1246–52.
[View In Article](#)

Description: Midazolam is a very short-acting benzodiazepine. It is used for conscious sedation, anxiolysis, and amnesia during minor surgical or diagnostic procedures, as an anesthesia induction agent, or as an adjunct to regional anesthesia. Midazolam has a slower induction time and more prolonged recovery time than does thiopental. The manufacturer's label contains a black-box warning that describes the risk of respiratory arrest, the need for adequate personnel and equipment when administering midazolam, and the appropriate dose titration (see Contraindications). Midazolam was originally thought to be preferable to other benzodiazepines for conscious sedation because of its potency and its short duration of action, however, comparisons with diazepam, an agent with a much longer half-life, have not revealed a consistent advantage of midazolam in the surgical setting. [24145](#)

Content Overview - Guidelines

- Filter by Specialties, Authoring Organizations

The image shows the ClinicalKey interface. On the left, the 'Browse Guidelines' page is displayed with a search bar and filter options for 'Specialties' and 'Authoring Organizations'. A red box highlights these filter options. On the right, a detailed view of a 'FULL TEXT ARTICLE' is shown for 'cardiovascular disease'. A red box highlights the left sidebar of this article view, which lists sections: 'New Scope of the Document', 'Screening With the ECG', 'Background of U.S. Screening Programs', 'Cardiovascular Causes and Epidemiology of SD in the Young', 'Magnitude of the Problem', 'Young Competitive Athletes', and 'Limitations'.

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All Search ClinicalKey for ...

Filter By: Specialties Authoring Organizations

Browse Guidelines

Find by Title

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Subscribed Content

(1) 2006 consensus guidelines for the management of cervical cancer screening tests. (2) 2009 addendum
American Society for Colposcopy and Cervical Pathology - Medical Specialty Society [2]

(1) ACC/AHA 2005 guidelines for the management of arterial disease (lower extremity, renal, mesenteric, collaborative report from the American Association

ClinicalKey®

Guidelines cardiovascular disease

Go to: Outline

New Scope of the Document

Screening With the ECG

Background of U.S. Screening Programs

Cardiovascular Causes and Epidemiology of SD in the Young

Magnitude of the Problem

Young Competitive Athletes

Limitations

FULL TEXT ARTICLE

Assessment of the 12-Lead Electrocardiogram as a Screening Test for Detection of Cardiovascular Disease in Healthy General Populations of Young People (12–25 Years of Age)  

Barry J. Maron MD, FACC, Richard A. Friedman MD, FACC, Paul Kligfield MD, FAHA, Benjamin D. Levine MD, Sami Viskin MD, Bernard R. Chaitman MD, FAHA, Peter M. Okin MD, FAHA, FACC, J. Philip Saul MD, FAHA, FACC, Lisa Salberg, George F. Van Hare MD, Elsayed Z. Soliman MD, FAHA, FACC, Jersey Chen MD, MPH, G. Paul Matherne MD, FAHA, FACC, Steven F. Bolling MD, FAHA, Matthew J. Mitten JD, Arthur Caplan PhD, Gary J. Balady MD, FAHA and Paul D. Thompson MD, FAHA, FACC

JACC (Journal of the American College of Cardiology), 2014-10-07, Volume 64, Issue 14, Pages 1479-1514, Copyright © 2014 American Heart Association, Inc., and the American College of Cardiology Foundation

Sudden death (SD) of young people because of a variety of complex, predominantly genetic/congenital cardiovascular diseases is a riveting, devastating event and a public health and policy issue of

Content Overview - Patient Education

- +15,000 Customized Patient Education Handouts

The image displays two screenshots of the ClinicalKey platform, illustrating the customization and delivery of patient education materials.

Screenshot 1: Patient Education Handout

This screenshot shows a patient education handout for "Sore Throat". The left sidebar lists topics such as Overview, What is a sore throat?, Symptoms, What are the symptoms of a sore throat?, Causes & Risk Factors, and What causes sore throats?. The main content area displays the "PATIENT EDUCATION" section for "Sore Throat", including the copyright notice (Copyright © 1996-2014 by the American Academy of Family Physicians) and the last revision date (Last revised: August 12, 2014). The right sidebar features a "Delivery Options" section with a "Print" button, which is highlighted with a red box.

Screenshot 2: Print Selected Patient Education

This screenshot shows the "Print Selected Patient Education" interface. It includes a "Print Selected Patient Education" header, a "Sore Throat" section, and a text area with a placeholder "Add special instructions for your patient here...". The right sidebar contains sections for "Contact Information" (Contact Name, Phone, Contact Email, and a "+ Add Another Contact" button), "Text Size" (Small, Medium, Large radio buttons), and a "Print" button, all of which are highlighted with red boxes.

Content Overview - MEDLINE

- Fully indexed MEDLINE

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MEDLINE ▾ cardiovascular disease

MEDLINE

Aging and cardiovascular diseases: the role of gene-environment interactions.

Corella D, Ordovás JM. - Ageing Res. Rev. - November 1, 2014; 18 (): 53-73

Abstract

In the study of longevity, increasing importance is being placed on the role of genes in determining the risk of cardiovascular diseases (CVDs) rather than considering the total number of years lived. Although the concept of gene-environment interactions has been defined better, we know that cardiovascular diseases (CVDs) are the main cause of death in the elderly. Controlling risk factors will contribute to reducing their incidence, leading to a better quality of life. CVDs are complex diseases influenced by numerous genetic and environmental factors. Numerous gene variants have been identified that are associated with a greater or lesser risk of the different types of CVD and of intermediate phenotypes (i.e., hypercholesterolemia, hypertension, diabetes) have been successfully identified. However, despite the close link between aging and CVD, studies analyzing the genes related to human longevity have not obtained consistent results and there has been little coincidence in the genes.

Citation

MEDLINE is the source for the citation and abstract for this record

Full Source Title
Ageing research reviews

NLM Citation ID
25159268 (PubMed ID)

Language
eng

Author Affiliation

Authors
Corella D, Ordovás JM

Content Overview - Multimedia

- Filter by Source, Specialties, Date
- View by Grid, List

The screenshot shows the ClinicalKey interface for multimedia content. The search bar at the top contains 'radiation therapy'. Below the search bar is a filter panel with 'Filter By: Source Type', 'Specialties', and 'Date' dropdowns, with 'Images' selected. A red box highlights this filter panel. To the right of the filter panel is a search icon. Below the filter panel, there are two checkboxes: '644 results' and 'Subscribed Content'. On the right side, there are 'View' and 'Sort by' dropdowns, with 'Grid' selected, indicated by a red box. The main content area displays a grid of 12 multimedia items. The items include various types of content: 1. A graph showing dose distribution with 'SOBP' and '10 MV Photon' labels. 2. A 3D rendering of a human torso with internal structures. 3. A diagram of a cell with various organelles. 4. A complex network diagram with nodes and connections. 5. A diagram of a cell with a nucleus and various organelles. 6. A diagram of a cell with a nucleus and various organelles. 7. A graph with multiple data series. 8. A close-up image of a skin lesion. 9. A close-up image of a skin lesion. 10. A close-up image of a skin lesion. 11. A diagram of a cell with a nucleus and various organelles. 12. A diagram of a cell with a nucleus and various organelles.

Content Overview - Procedures Consult

- Pre-procedure, Procedure, Post-procedure
- References / Quick review

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Procedures  radiation therapy

PROCEDURES CONSULT
Splenectomy for Disease — Open



Last Reviewed Date: 9/2/2009

Editor(s): Nestor R. Villamizar, MD, Theodore Pappas, MD

Section Editor(s): Theodore Pappas, MD

REFERENCES

1. Results of a prospective randomized trial of early splenectomy in chronic myeloid leukemia. *The Italian Cooperative Study Group on Chronic Myeloid Leukemia* . *Cancer* 1984; 54: pp. 333-338.
2. Katkhouda N, Hurwitz MB, Rivera RT, et al: Laparoscopic splenectomy: outcome and efficacy in 103 consecutive patients . *Ann Surg* 1998; 228: pp. 568-578.
3. Morel P, Dupriez B, Gosselin B, et al: Role of early splenectomy in malignant lymphomas with prominent splenic involvement (primary lymphomas of the spleen): a study of 59 cases . *Cancer* 1993; 71: pp. 207-215.
4. Bee TK, Croce MA, Miller PR, et al: Failures of splenic nonoperative management: is the glass half empty or half full ? *J Trauma* 2001; 50: pp. 230-236.
5. Kojouri K, Vesely SK, Terrell DR, et al: Splenectomy for adult patients with idiopathic thrombocytopenic purpura: a systematic review to assess long-term platelet count responses, prediction of response, and surgical complications . *Blood* 2004; 104: pp. 2623-2634.
6. Townsend CM, Beauchamp DR, Evers MB, et al: *Sabiston Textbook of Surgery*, 18th ed, Philadelphia, Saunders, 2008.

QUICK REVIEW

PRE-PROCEDURE

Personal Features - Saved Content

- Add/Edit/Share Tag, Add a note to that specific tag

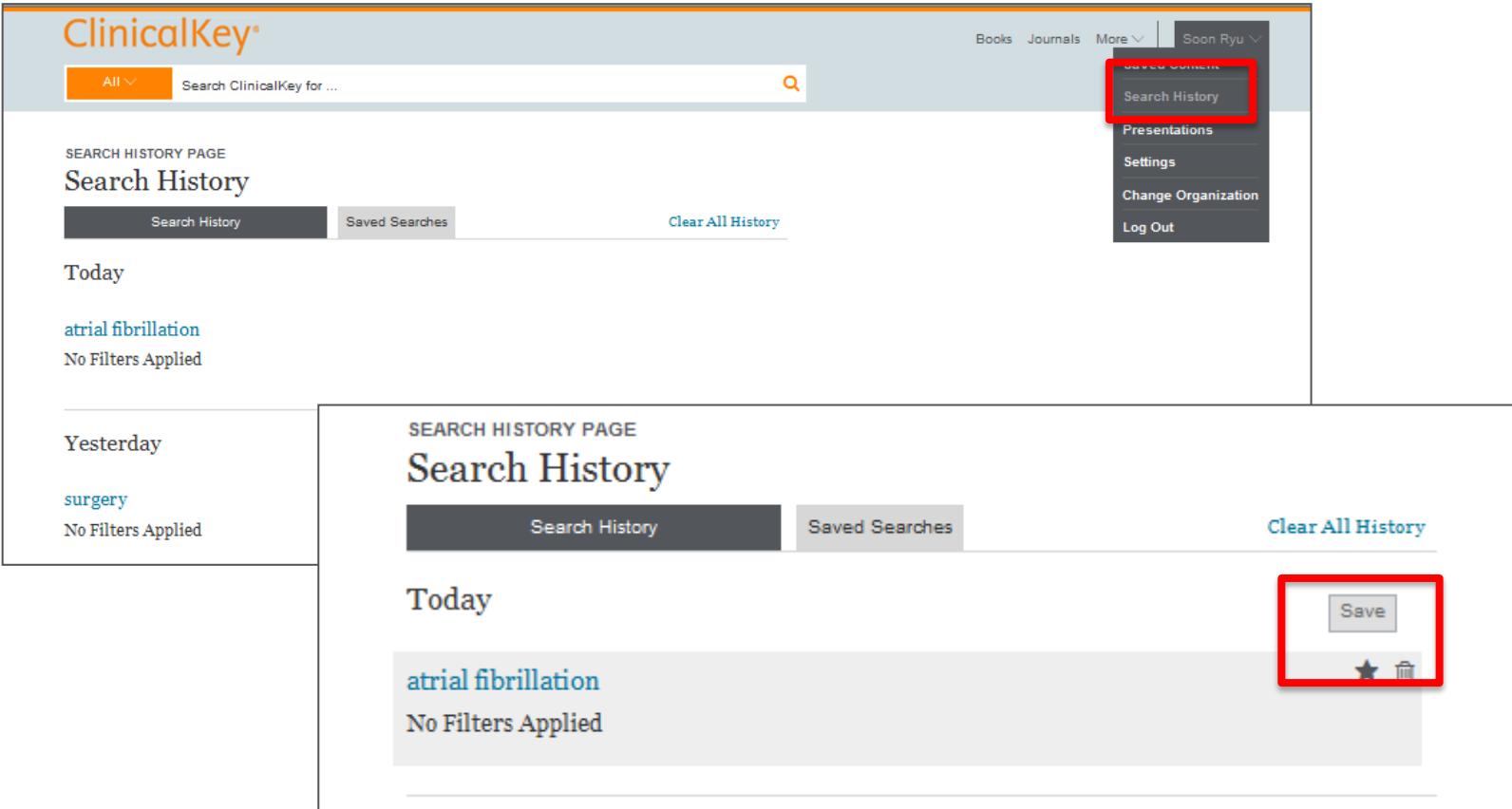
The image shows the ClinicalKey interface with several features highlighted by red boxes:

- Top Right Panel:** Shows a 'Saved' list with 29 items, a 'My Tags' section, and a 'Share Tag' button.
- Bottom Left Panel:** Shows a 'Saved' list with 1 item, a note input field for 'test', and a 'Save Changes' button.
- Top Center Panel:** Shows a 'Book Chapter Saved' confirmation dialog with 'Add Tag' and 'Go to Saved' buttons.
- Top Right Panel (Large View):** Shows a 'Book Chapter Saved' confirmation dialog with 'CME' and other sharing options.

The ClinicalKey logo is visible in the bottom right corner.

Personal Features - Search History

- Save, Delete



The image shows the ClinicalKey search history page. At the top, there is a navigation bar with 'Books', 'Journals', 'More', and a user dropdown for 'Soon Ryu'. A red box highlights the 'More' dropdown menu, which includes 'Search History', 'Presentations', 'Settings', 'Change Organization', and 'Log Out'. Below the navigation bar, the main content area is titled 'SEARCH HISTORY PAGE' and 'Search History'. It has tabs for 'Search History' (selected), 'Saved Searches', and 'Clear All History'. The 'Search History' tab shows a list of search terms: 'Today' (atrial fibrillation, No Filters Applied) and 'Yesterday' (surgery, No Filters Applied). A red box highlights the 'Save' button in the bottom right corner of the search results area. The bottom right corner also contains a star icon and a trash bin icon.

Personal Features - Presentation Maker

- Create folder
- Save, Edit(Add/delete)

ClinicalKey®

Multimedia sore throat

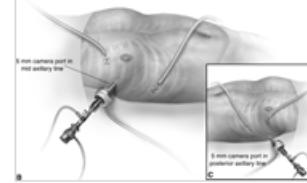
Presentation Maker

My Presentations

+ Create new presentation

test	9/24/14
addison disease	9/24/14
Myocarditis	9/24/14

test



5 mm camera port in mid esophagus line
5 mm camera port in posterior esophagus line

+ Add images from Saved Content

Books Journals More Soon Ryu

Saved Content

Search History

Presentations

Settings

Log Out

Rights Link®

- “Get rights and content” link
- Commercial reuse of Elsevier content

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All ▾ Search ClinicalKey for ...

Go to: Outline ▾

Summary of Key Points

BOOK CHAPTER

Gene Therapy in Oncology 

James E. Talmadge and Kenneth H. Cowan
Abeloff's Clinical Oncology, 31, 493-507.e4

Summary of Key Points

Recent Advances in Gene Therapy

- Chimeric antigen receptor transduction of peripheral blood T lymphocytes for delivery of specifically cytotoxic immunoreactivity
- Silencing of gene expression with short hairpin RNA delivered with nanoparticle or lentiviral delivery vectors
- Regulated transgene expression

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Chapter: 31 Gene Therapy in Oncology
Book: Abeloff's Clinical Oncology
Publisher: Elsevier
Date: 2014
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My number of figures/tables/illustrations...  2

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The number of languages I will translate into is...  1

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Quick Price  Not Available



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 John E. Niederhuber MD, James O. Armitage MD, James H. Doroshow MD, Michael B. Kastan MD, PhD and Joel E. Tepper MD

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