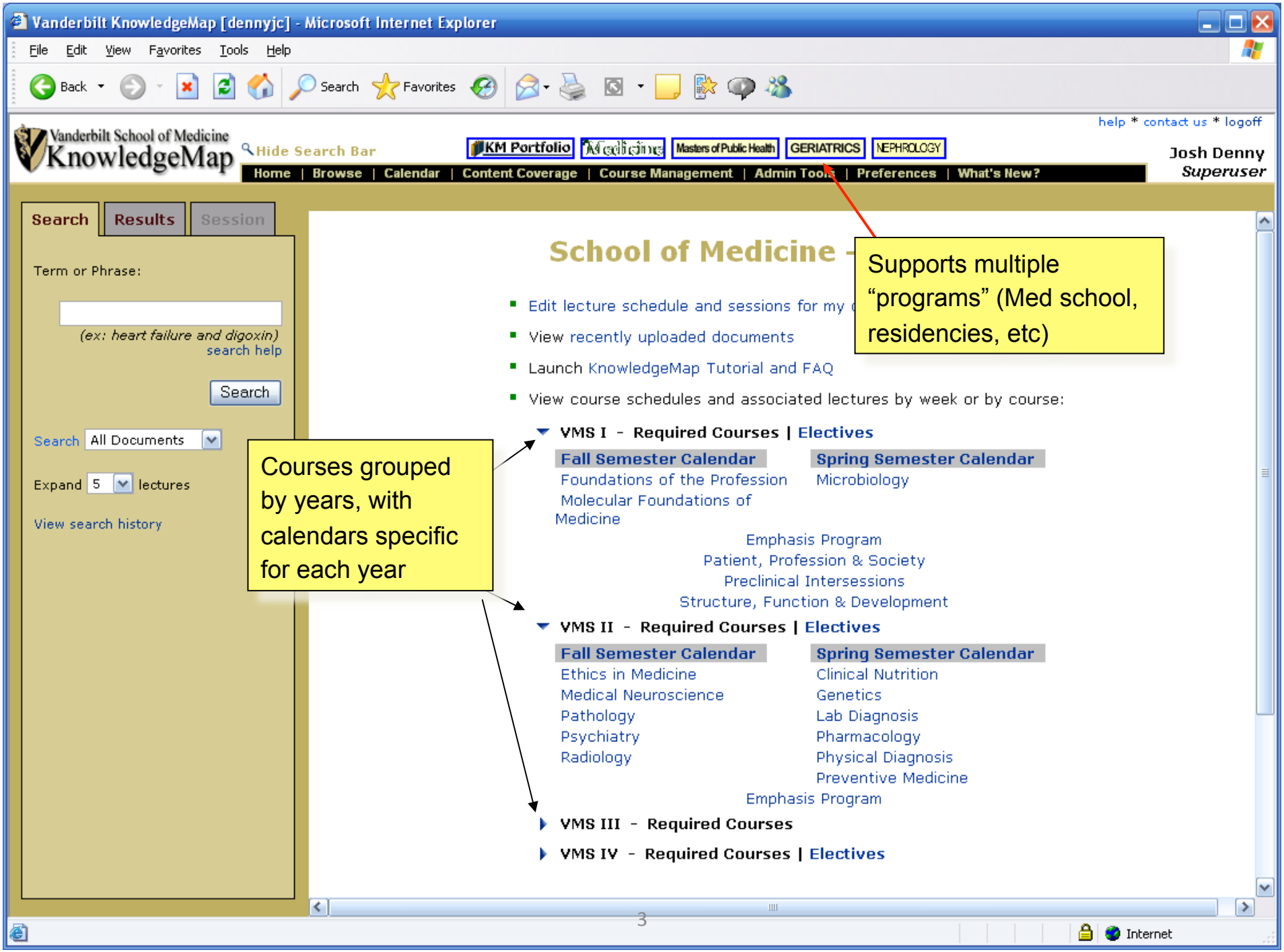
Overview of KnowledgeMap and Learning Portfolio

KnowledgeMap

- A web based knowledge management tool
- Displays all the curricular documents
- Automatically locates all medical concepts in each lecture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File Edit View Favorites Tools Help
Back Search Favorites
Vanderbilt School of Medicine KnowledgeMap
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help * contact us * logoff
KM Portfolio
Medicine
Masters of Public Health
GERIATRICS
NEPHROLOGY
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Josh Denny
Superuser
Search
Results
Session
Term or Phrase:
(ex: heart failure and digoxin)
search help
Search
Search All Documents
Expand 5 lectures
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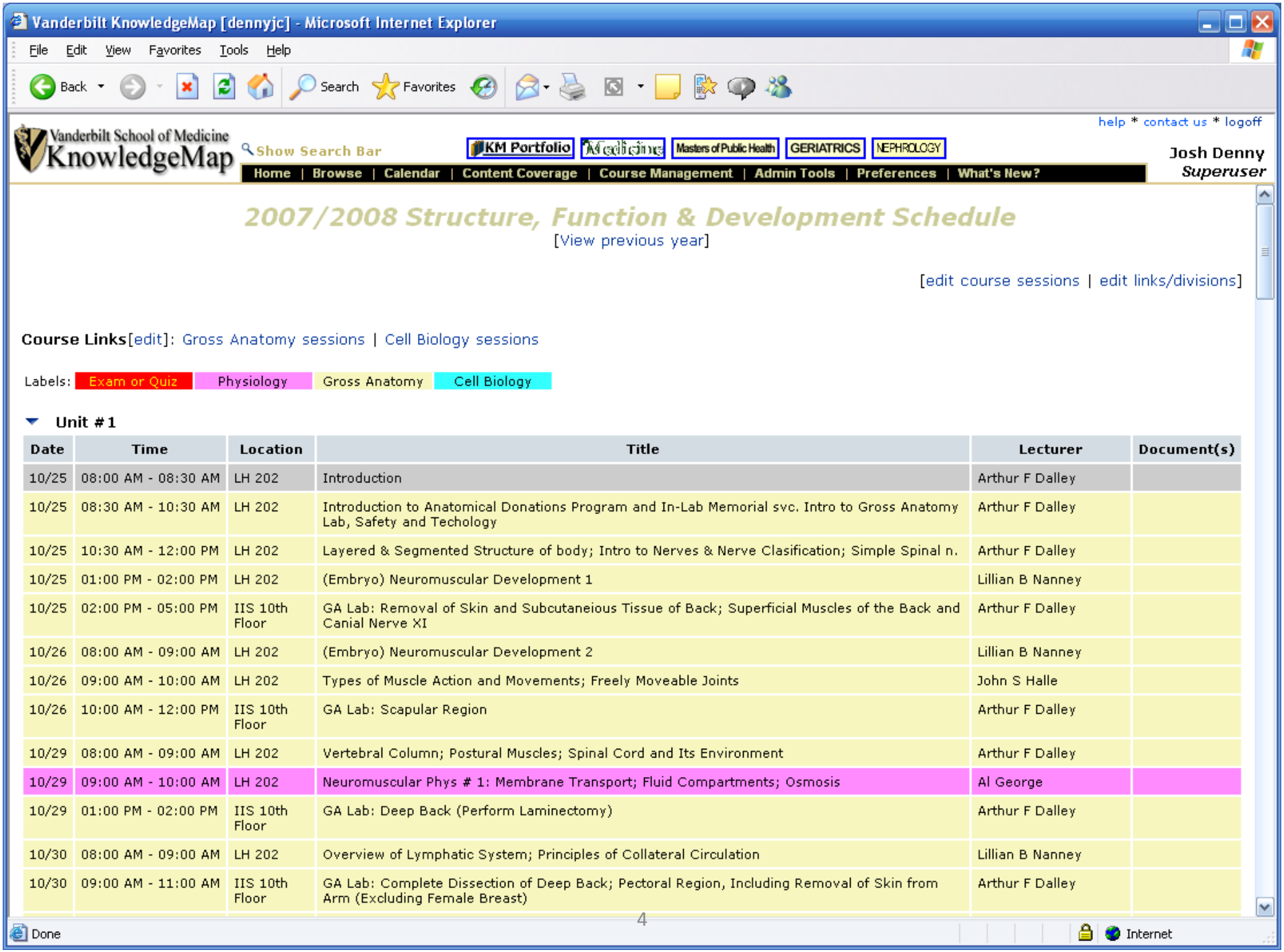
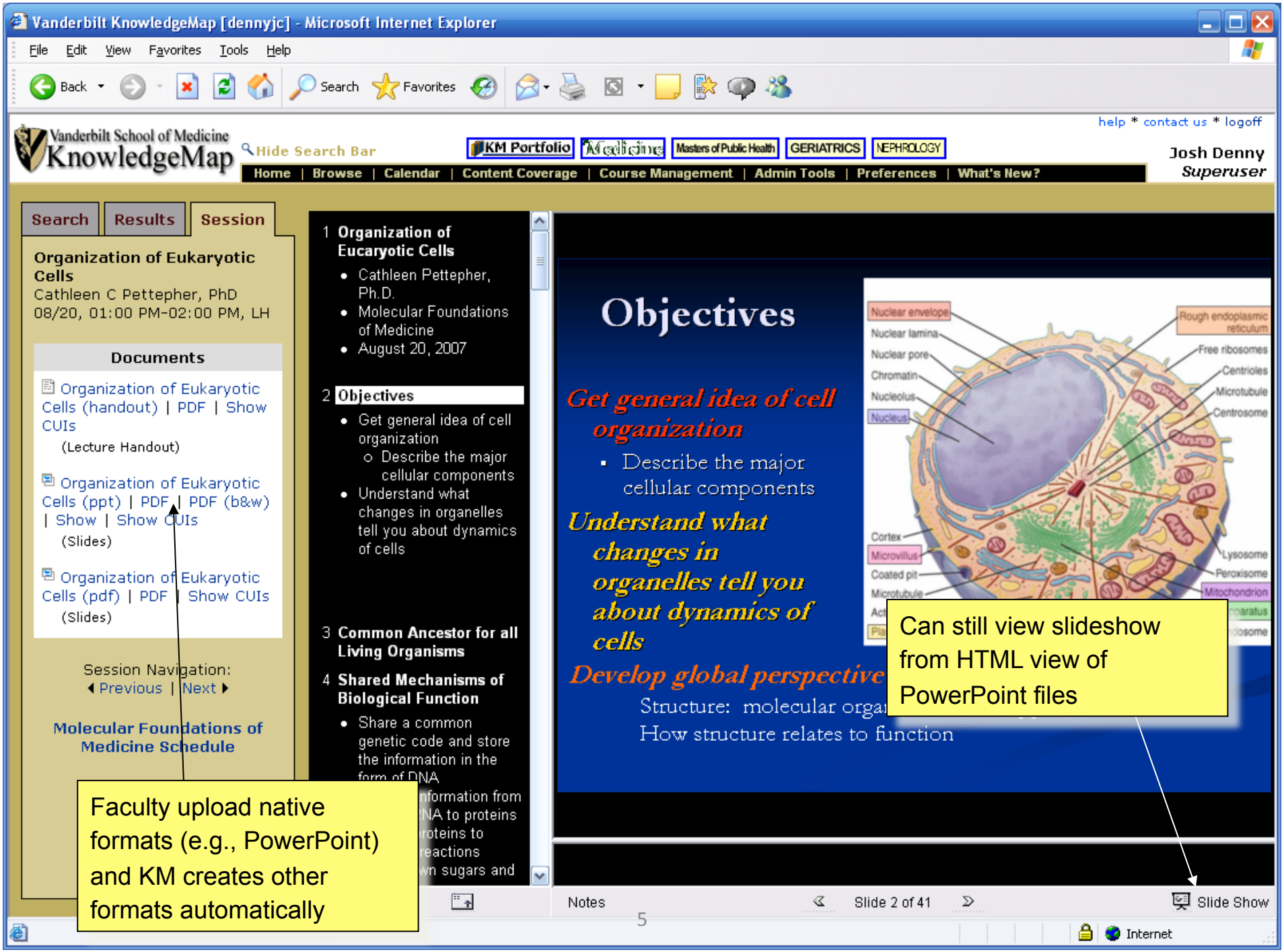
School of Medicine -
Edit lecture schedule and sessions for my
View recently uploaded documents
Launch KnowledgeMap Tutorial and FAQ
View course schedules and associated lectures by week or by course:
VMS I - Required Courses | Electives
Fall Semester Calendar
Foundations of the Profession
Molecular Foundations of Medicine
Spring Semester Calendar
Microbiology
Emphasis Program
Patient, Profession & Society
Preclinical Intersessions
Structure, Function & Development
VMS II - Required Courses | Electives
Fall Semester Calendar
Ethics in Medicine
Medical Neuroscience
Pathology
Psychiatry
Radiology
Spring Semester Calendar
Clinical Nutrition
Genetics
Lab Diagnosis
Pharmacology
Physical Diagnosis
Preventive Medicine
Emphasis Program
VMS III - Required Courses
VMS IV - Required Courses | Electives
Supports multiple "programs" (Med school, residencies, etc)
Courses grouped by years, with calendars specific for each year
Internet



Date	Time	Location	Title	Lecturer	Document(s)
10/25	08:00 AM - 08:30 AM	LH 202	Introduction	Arthur F Dalley	
10/25	08:30 AM - 10:30 AM	LH 202	Introduction to Anatomical Donations Program and In-Lab Memorial svc. Intro to Gross Anatomy Lab, Safety and Techology	Arthur F Dalley	
10/25	10:30 AM - 12:00 PM	LH 202	Layered & Segmented Structure of body; Intro to Nerves & Nerve Clasification; Simple Spinal n.	Arthur F Dalley	
10/25	01:00 PM - 02:00 PM	LH 202	(Embryo) Neuromuscular Development 1	Lillian B Nanney	
10/25	02:00 PM - 05:00 PM	IIS 10th Floor	GA Lab: Removal of Skin and Subcutaneious Tissue of Back; Superficial Muscles of the Back and Canial Nerve XI	Arthur F Dalley	
10/26	08:00 AM - 09:00 AM	LH 202	(Embryo) Neuromuscular Development 2	Lillian B Nanney	
10/26	09:00 AM - 10:00 AM	LH 202	Types of Muscle Action and Movements; Freely Moveable Joints	John S Halle	
10/26	10:00 AM - 12:00 PM	IIS 10th Floor	GA Lab: Scapular Region	Arthur F Dalley	
10/29	08:00 AM - 09:00 AM	LH 202	Vertebral Column; Postural Muscles; Spinal Cord and Its Environment	Arthur F Dalley	
10/29	09:00 AM - 10:00 AM	LH 202	Neuromuscular Phys # 1: Membrane Transport; Fluid Compartments; Osmosis	Al George	
10/29	01:00 PM - 02:00 PM	IIS 10th Floor	GA Lab: Deep Back (Perform Laminectomy)	Arthur F Dalley	
10/30	08:00 AM - 09:00 AM	LH 202	Overview of Lymphatic System; Principles of Collateral Circulation	Lillian B Nanney	
10/30	09:00 AM - 11:00 AM	IIS 10th Floor	GA Lab: Complete Dissection of Deep Back; Pectoral Region, Including Removal of Skin from Arm (Excluding Female Breast)	Arthur F Dalley	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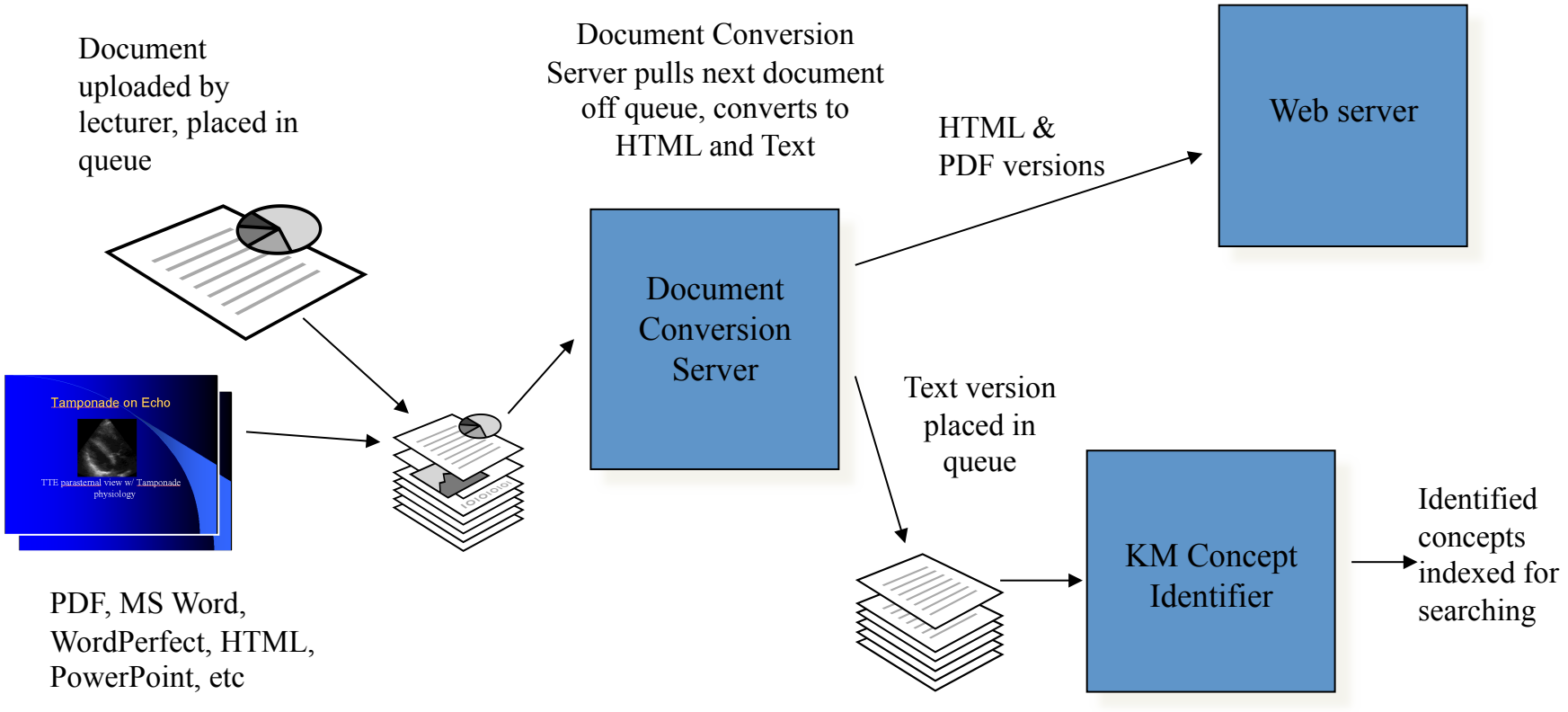
KM Portfolio Medicine Masters of Public Health GERIATRICS NEPHROLOGY
Home | Browse | Calendar | Content Coverage | Course Management | Admin Tools | Preferences | What's New?
Josh Denny
Superuser
Search Results Session
Organization of Eukaryotic Cells
Cathleen C Pettepher, PhD
08/20, 01:00 PM-02:00 PM, LH
Documents
Organization of Eukaryotic Cells (handout) | PDF | Show CUIs
(Lecture Handout)
Organization of Eukaryotic Cells (ppt) | PDF | PDF (b&w) | Show | Show CUIs
(Slides)
Organization of Eukaryotic Cells (pdf) | PDF | Show CUIs
(Slides)
Session Navigation:
Previous | Next
Molecular Foundations of Medicine Schedule
1 Organization of Eucaryotic Cells
Cathleen Pettepher, Ph.D.
Molecular Foundations of Medicine
August 20, 2007
2 Objectives
Get general idea of cell organization
Describe the major cellular components
Understand what changes in organelles tell you about dynamics of cells
3 Common Ancestor for all Living Organisms
4 Shared Mechanisms of Biological Function
Share a common genetic code and store the information in the
Objectives
Get general idea of cell organization
Describe the major cellular components
Understand what changes in organelles tell you about dynamics of cells
Develop global perspective
Structure: molecular orga
How structure relates to function
Nuclear envelope
Nuclear lamina
Nuclear pore
Chromatin
Nucleolus
Nucleus
Rough endoplasmic reticulum
Free ribosomes
Centrioles
Microtubule
Centrosome
Cortex
Microvillus
Coated pit
Microtubule
Lysosome
Peroxisome
Mitochondrion
Notes
Slide 2 of 41
Slide Show
Internet
Faculty upload native formats (e.g., PowerPoint) and KM creates other formats automatically
Can still view slideshow from HTML view of PowerPoint files

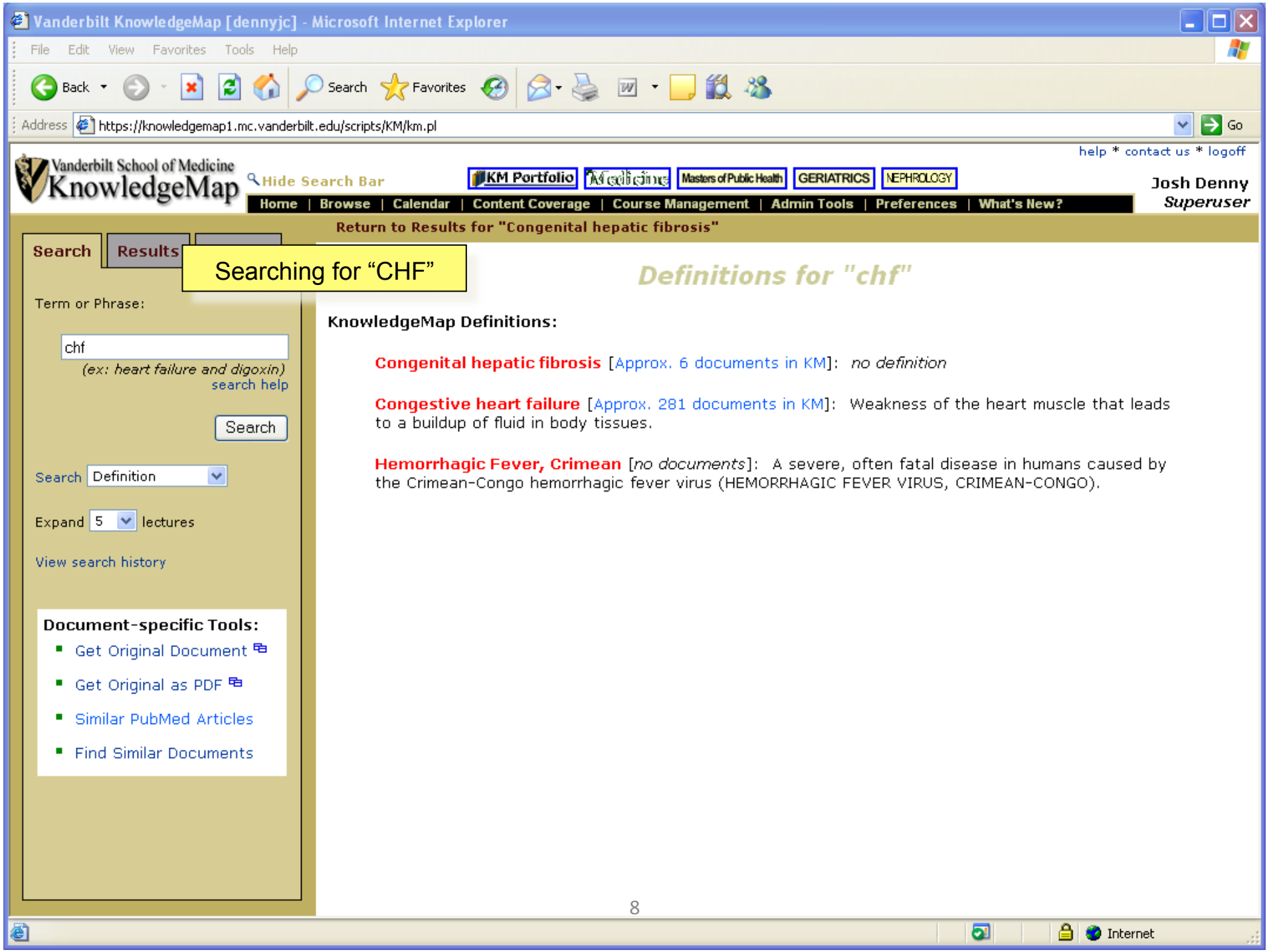
Document Processing



Concept vs. Text indexing

- Text indexing
  - Examples: Google, Yahoo
  - Indexing by words of document
  - "Hepatolenticular degeneration" ≠ "Wilson's Disease"

- Concept indexing – used in NLP systems like KM
  - Indexing by "concepts"
  - "Hepatolenticular degeneration" = "Wilson's disease"
  - Recognizes words in document to a controlled vocabulary, such as the Unified Medical Language System (UMLS)
    - "CHF" → C00018802
    - "Congestive Heart Failure" → C00018802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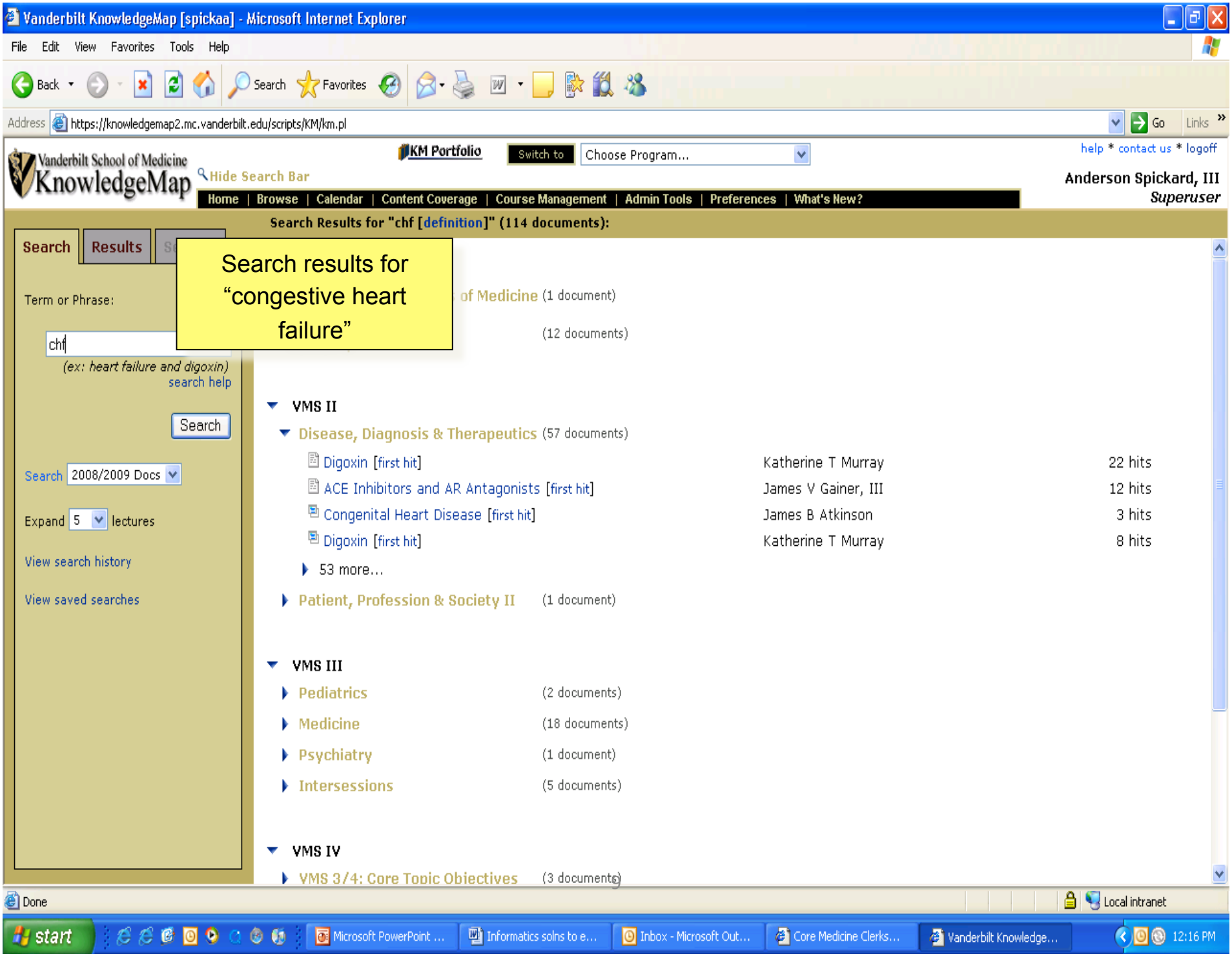
Home | Browse | Calendar | Content Coverage | Course Management | Admin Tools | Preferences | What's New?
Return to Results for "Congenital hepatic fibrosis"
Search
Results
Searching for "CHF"
Term or Phrase:
chf
(ex: heart failure and digoxin)
search help
Search
Search Definition
Expand 5 lectures
View search history
Document-specific Tools:
Get Original Document
Get Original as PDF
Similar PubMed Articles
Find Similar Documents
Definitions for "chf"
KnowledgeMap Definitions:
Congenital hepatic fibrosis [Approx. 6 documents in KM]: no definition
Congestive heart failure [Approx. 281 documents in KM]: Weakness of the heart muscle that leads to a buildup of fluid in body tissues.
Hemorrhagic Fever, Crimean [no documents]: A severe, often fatal disease in humans caused by the Crimean-Congo hemorrhagic fever virus (HEMORRHAGIC FEVER VIRUS, CRIMEAN-CONGO).
Internet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Choose Program...
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Superuser
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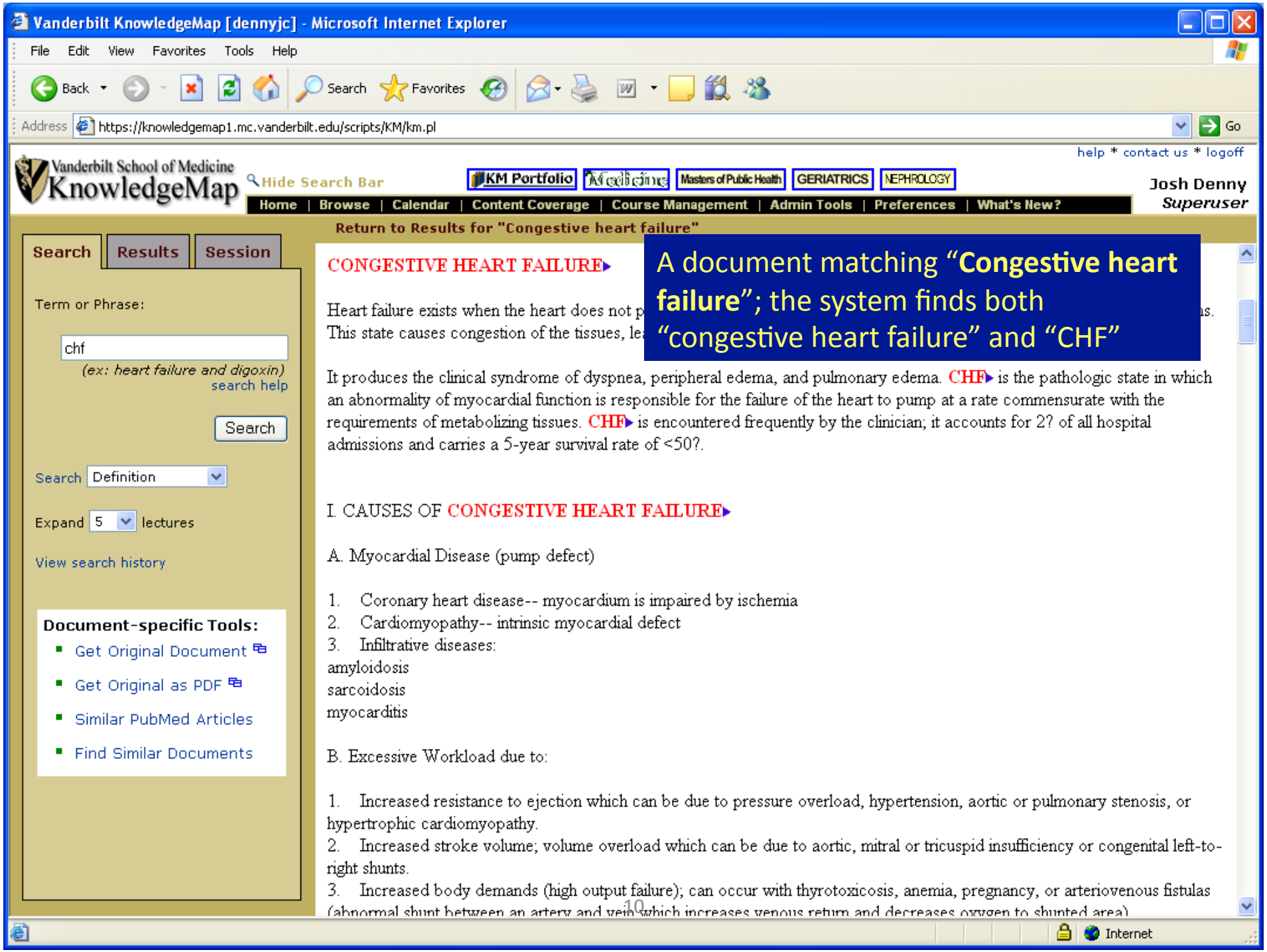
Search Results for "chf [definition]" (114 documents):
Search
Results
Term or Phrase:
chf
(ex: heart failure and digoxin)
search help
Search
Search 2008/2009 Docs
Expand 5 lectures
View search history
View saved searches
Search results for "congestive heart failure"
of Medicine (1 document)
(12 documents)
VMS II
Disease, Diagnosis & Therapeutics (57 documents)
Digoxin [first hit] Katherine T Murray 22 hits
ACE Inhibitors and AR Antagonists [first hit] James V Gainer, III 12 hits
Congenital Heart Disease [first hit] James B Atkinson 3 hits
Digoxin [first hit] Katherine T Murray 8 hits
53 more...
Patient, Profession & Society II (1 document)
VMS III
Pediatrics (2 documents)
Medicine (18 documents)
Psychiatry (1 document)
Intersessions (5 documents)
VMS IV
VMS 3/4: Core Topic Objectives (3 documents)
Done
Local intranet
start
Microsoft PowerPoint ...
Informatics solns to e...
Inbox - Microsoft Out...
Core Medicine Clerks...
Vanderbilt Knowledge...
12:16 PM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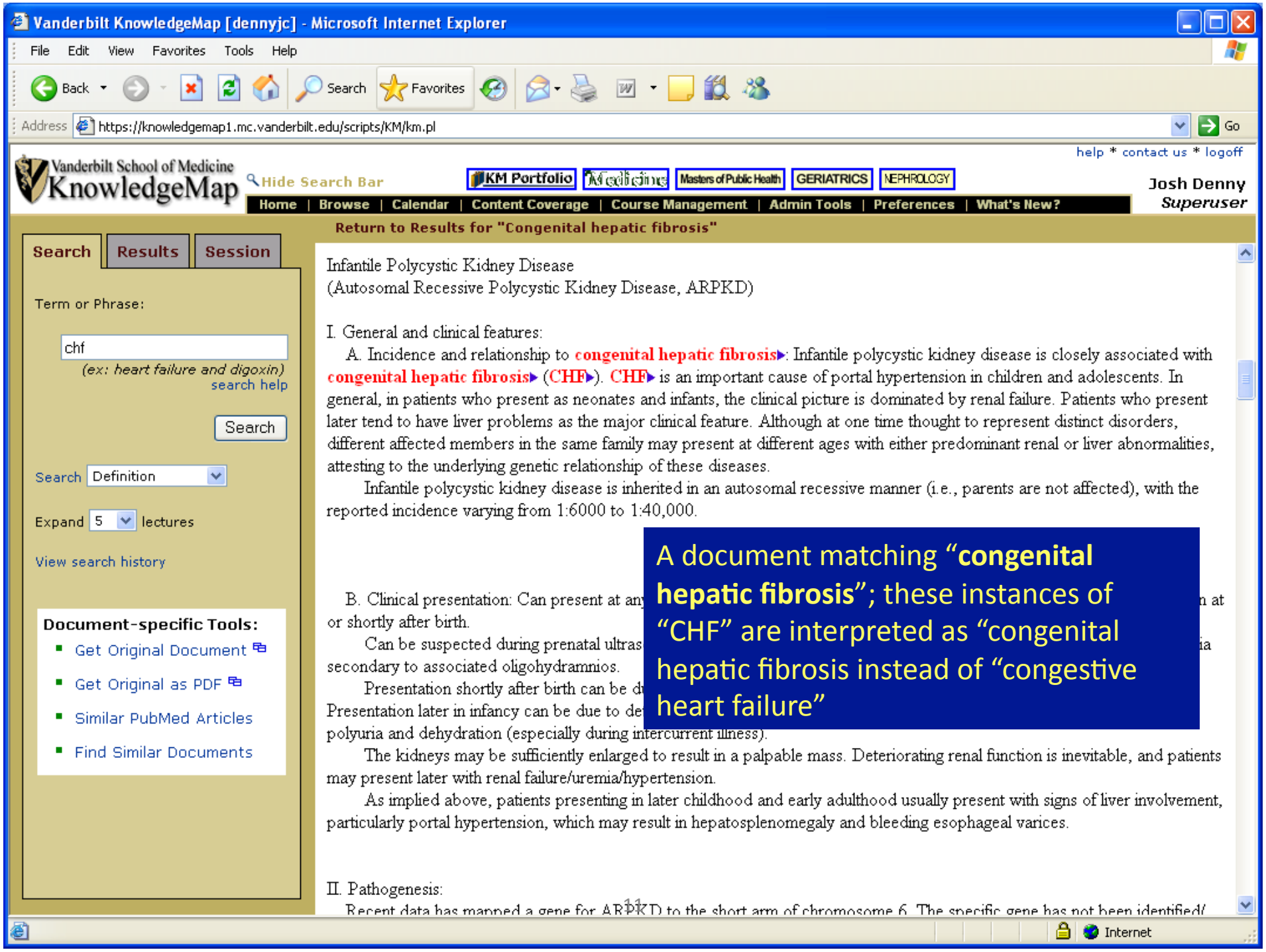
Search
Results
Session
Term or Phrase:
chf
(ex: heart failure and digoxin)
search help
Search
Search Definition
Expand 5 lectures
View search history
Document-specific Tools:
Get Original Document
Get Original as PDF
Similar PubMed Articles
Find Similar Documents
CONGESTIVE HEART FAILURE
Heart failure exists when the heart does not p
This state causes congestion of the tissues, le
A document matching "Congestive heart failure"; the system finds both "congestive heart failure" and "CHF"
It produces the clinical syndrome of dyspnea, peripheral edema, and pulmonary edema. CHF is the pathologic state in which an abnormality of myocardial function is responsible for the failure of the heart to pump at a rate commensurate with the requirements of metabolizing tissues. CHF is encountered frequently by the clinician; it accounts for 2? of all hospital admissions and carries a 5-year survival rate of <50?.
I. CAUSES OF CONGESTIVE HEART FAILURE
A. Myocardial Disease (pump defect)
1. Coronary heart disease-- myocardium is impaired by ischemia
2. Cardiomyopathy-- intrinsic myocardial defect
3. Infiltrative diseases:
amyloidosis
sarcoidosis
myocarditis
B. Excessive Workload due to:
1. Increased resistance to ejection which can be due to pressure overload, hypertension, aortic or pulmonary stenosis, or hypertrophic cardiomyopathy.
2. Increased stroke volume; volume overload which can be due to aortic, mitral or tricuspid insufficiency or congenital left-to-right shunts.
3. Increased body demands (high output failure); can occur with thyrotoxicosis, anemia, pregnancy, or arteriovenous fistulas (abnormal shunt between an artery and vein which increases venous return and decreases oxygen to shunted area)
Internet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Return to Results for "Congenital hepatic fibrosis"
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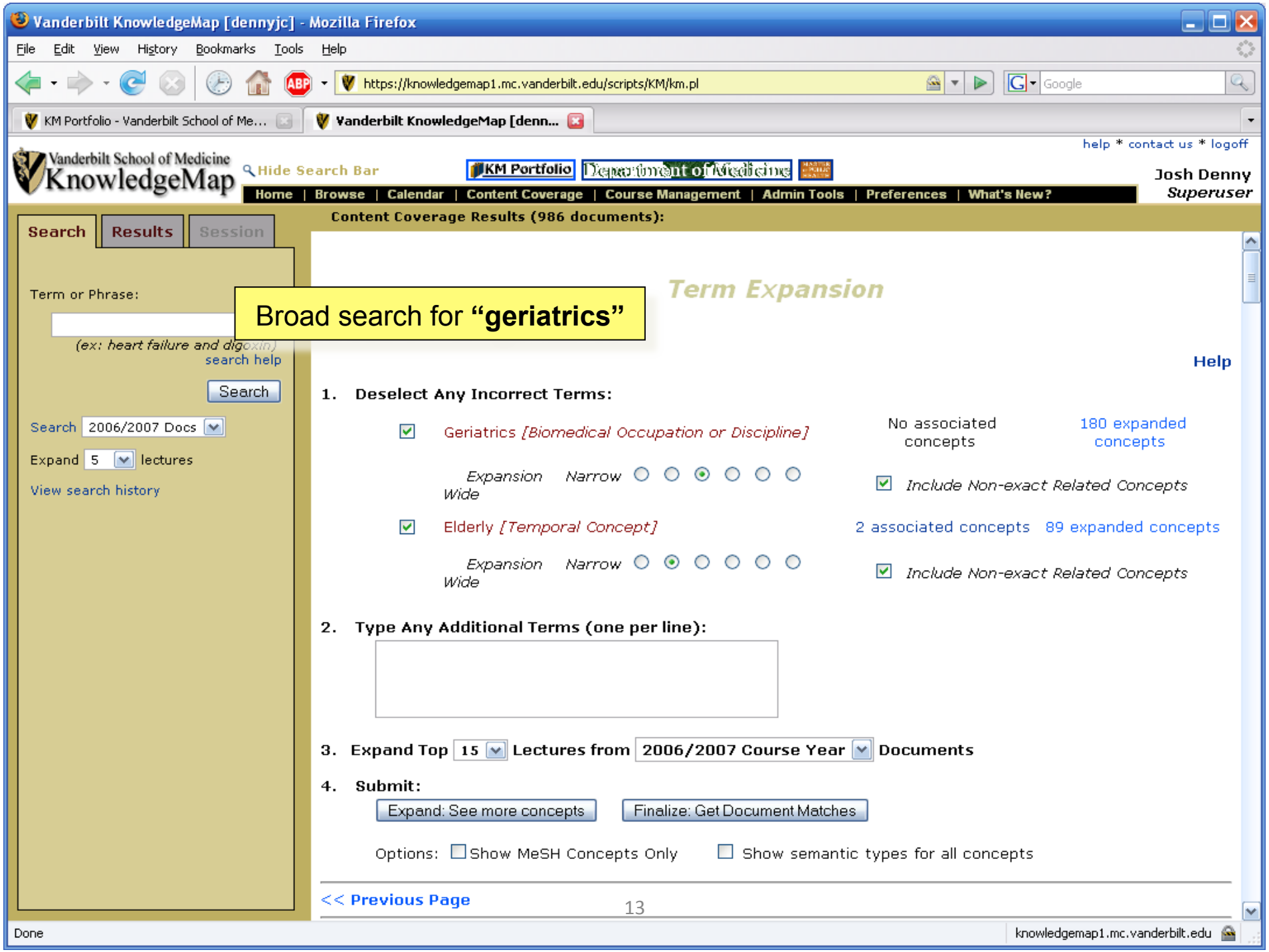
Results
Session
Term or Phrase:
chf
(ex: heart failure and digoxin)
search help
Search
Search Definition
Expand 5 lectures
View search history
Document-specific Tools:
Get Original Document
Get Original as PDF
Similar PubMed Articles
Find Similar Documents
Infantile Polycystic Kidney Disease
(Autosomal Recessive Polycystic Kidney Disease, ARPKD)
I. General and clinical features:
A. Incidence and relationship to congenital hepatic fibrosis: Infantile polycystic kidney disease is closely associated with congenital hepatic fibrosis (CHF). CHF is an important cause of portal hypertension in children and adolescents. In general, in patients who present as neonates and infants, the clinical picture is dominated by renal failure. Patients who present later tend to have liver problems as the major clinical feature. Although at one time thought to represent distinct disorders, different affected members in the same family may present at different ages with either predominant renal or liver abnormalities, attesting to the underlying genetic relationship of these diseases.
Infantile polycystic kidney disease is inherited in an autosomal recessive manner (i.e., parents are not affected), with the reported incidence varying from 1:6000 to 1:40,000.
A document matching "congenital hepatic fibrosis"; these instances of "CHF" are interpreted as "congenital hepatic fibrosis instead of "congestive heart failure"
B. Clinical presentation: Can present at any
or shortly after birth.
Can be suspected during prenatal ultras
secondary to associated oligohydramnios.
Presentation shortly after birth can be d
Presentation later in infancy can be due to de
polyuria and dehydration (especially during intercurrent illness).
The kidneys may be sufficiently enlarged to result in a palpable mass. Deteriorating renal function is inevitable, and patients may present later with renal failure/uremia/hypertension.
As implied above, patients presenting in later childhood and early adulthood usually present with signs of liver involvement, particularly portal hypertension, which may result in hepatosplenomegaly and bleeding esophageal varices.
II. Pathogenesis:
Recent data has mapped a gene for ARPKD to the short arm of chromosome 6. The specific gene has not been identified/
11
Internet

- What about a broad concepts like Geriatrics or Women's Health?

- What concepts represent Geriatrics and where are they covered in the curriculum?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Search
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Session
Content Coverage Results (986 documents):
Term or Phrase:
(ex: heart failure and digoxin)
search help
Search
Search 2006/2007 Docs
Expand 5 lectures
View search history
Broad search for "geriatrics"
Term Expansion
Help
1. Deselect Any Incorrect Terms:
Geriatrics [Biomedical Occupation or Discipline]
No associated concepts
180 expanded concepts
Expansion Narrow Wide
Include Non-exact Related Concepts
Elderly [Temporal Concept]
2 associated concepts
89 expanded concepts
Expansion Narrow Wide
Include Non-exact Related Concepts
2. Type Any Additional Terms (one per line):
3. Expand Top 15 Lectures from 2006/2007 Course Year Documents
4. Submit:
Expand: See more concepts
Finalize: Get Document Matches
Options: Show MeSH Concepts Only
Show semantic types for all concepts
<< Previous Page
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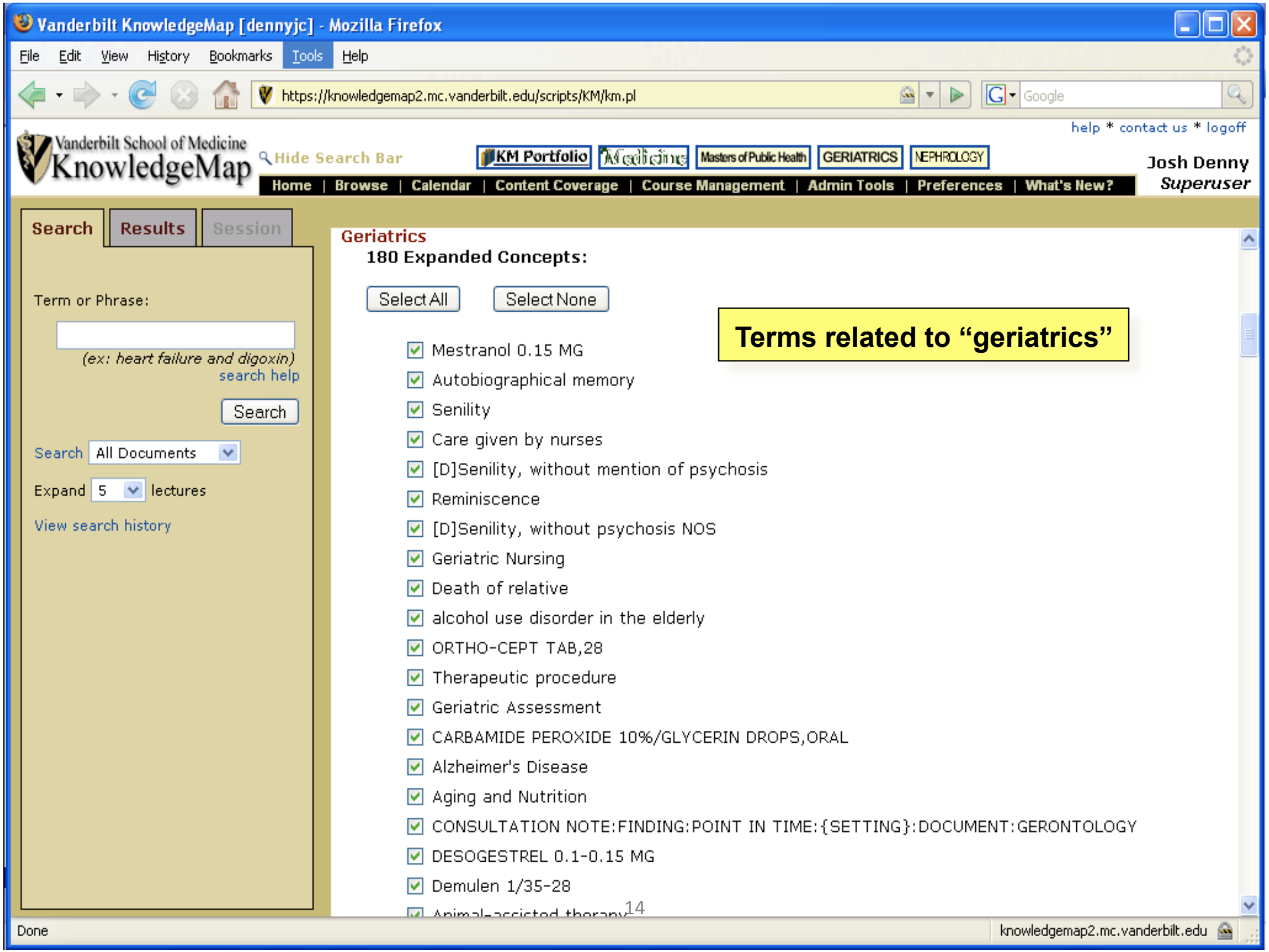
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Results
Session
Term or Phrase:
(ex: heart failure and digoxin)
search help
Search
Search All Documents
Expand 5 lectures
View search history
Geriatrics
180 Expanded Concepts:
Select All
Select None
Terms related to "geriatrics"
Mestranol 0.15 MG
Autobiographical memory
Senility
Care given by nurses
[D]Senility, without mention of psychosis
Reminiscence
[D]Senility, without psychosis NOS
Geriatric Nursing
Death of relative
alcohol use disorder in the elderly
ORTHO-CEPT TAB,28
Therapeutic procedure
Geriatric Assessment
CARBAMIDE PEROXIDE 10%/GLYCERIN DROPS,ORAL
Alzheimer's Disease
Aging and Nutrition
CONSULTATION NOTE:FINDING:POINT IN TIME:{SETTING}:DOCUMENT:GERONTOLOGY
DESOGESTREL 0.1-0.15 MG
Demulen 1/35-28
Done
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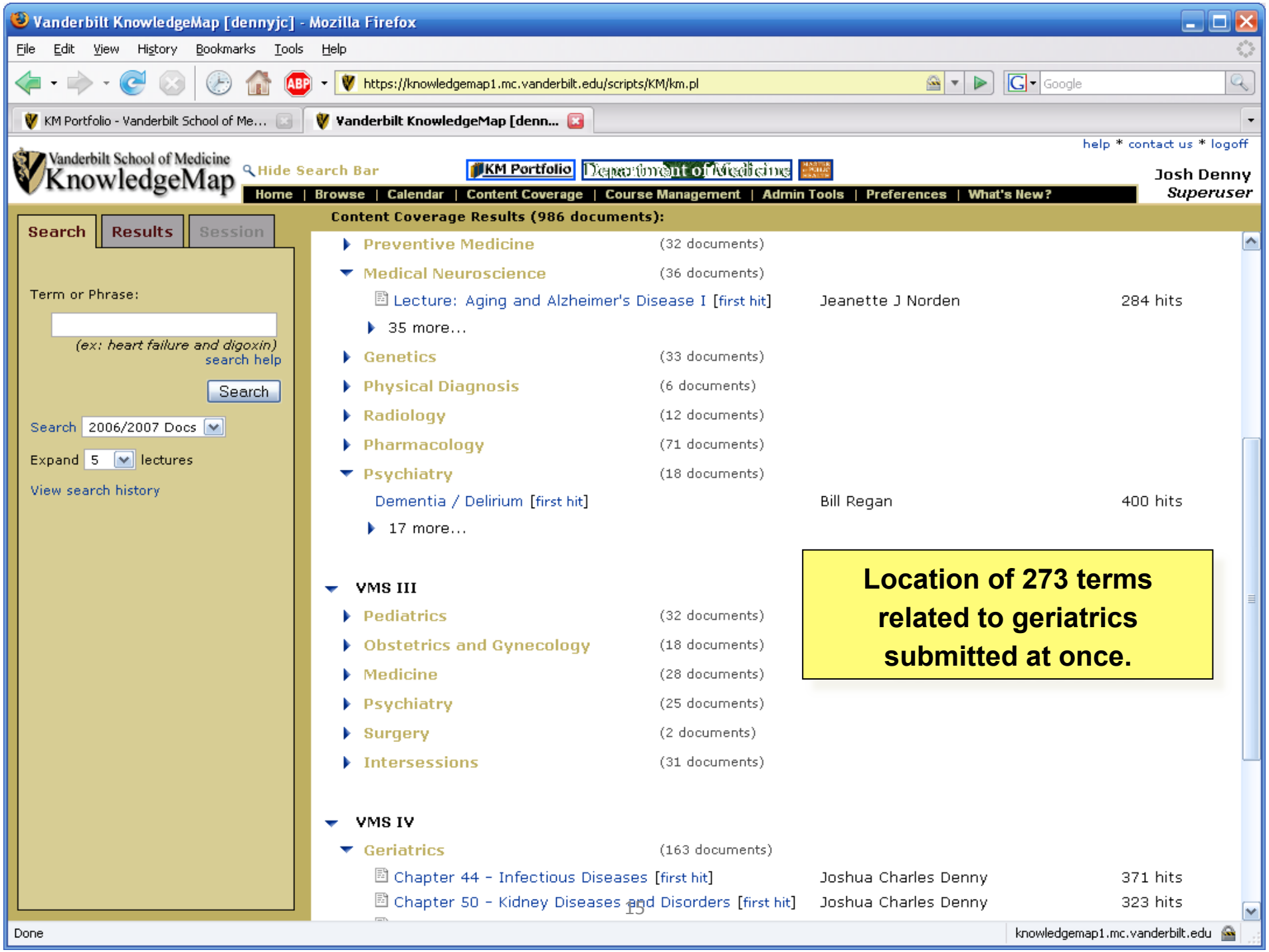
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Term or Phrase:
(ex: heart failure and digoxin)
search help
Search
Search 2006/2007 Docs
Expand 5 lectures
View search history
Content Coverage Results (986 documents):
Preventive Medicine (32 documents)
Medical Neuroscience (36 documents)
Lecture: Aging and Alzheimer's Disease I [first hit] Jeanette J Norden 284 hits
35 more...
Genetics (33 documents)
Physical Diagnosis (6 documents)
Radiology (12 documents)
Pharmacology (71 documents)
Psychiatry (18 documents)
Dementia / Delirium [first hit] Bill Regan 400 hits
17 more...
VMS III
Pediatrics (32 documents)
Obstetrics and Gynecology (18 documents)
Medicine (28 documents)
Psychiatry (25 documents)
Surgery (2 documents)
Intersessions (31 documents)
VMS IV
Geriatrics (163 documents)
Chapter 44 - Infectious Diseases [first hit] Joshua Charles Denny 371 hits
Chapter 50 - Kidney Diseases and Disorders [first hit] Joshua Charles Denny 323 hits
Location of 273 terms related to geriatrics submitted at once.
Done
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Term or Phrase:

(ex: heart failure and digoxin)
search help

Search

Search 2006/2007 Docs

Expand 5 lectures

View search history

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VMS II - 20
Author: *Jeanette J Norden*
Submitted *September 6, 2006*

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Lecture: Aging and Alzheimer's Disease I

NORMAL AGING▸ OF THE BRAIN/ALZHEIMER'S DISEASE▸

Insight into aging▸ of the brain and Alzheimer's disease▸ is the result of a massive research effort; work on Alzheimer's disease▸, in particular, represents a rapidly evolving area of research; new and often conflicting data are generated daily; the purpose of this set of lectures is to provide you with the requisite background information necessary to allow you to continue to assimilate new findings as they are generated, and to provide you with a synopsis of both an historical and current (albeit changing) understanding of Alzheimer▸ 's disease

* Recommended reading:

" DeBaggio, Thomas. Losing My Mind. The Free Press, 2002

" Bayley, John. Elegy for Iris. Picador Press, 1999

" Jozefowicz and Holloway: Case 26 "The Gopher Hunter"

I. Maturational events which occur normally in the nervous system

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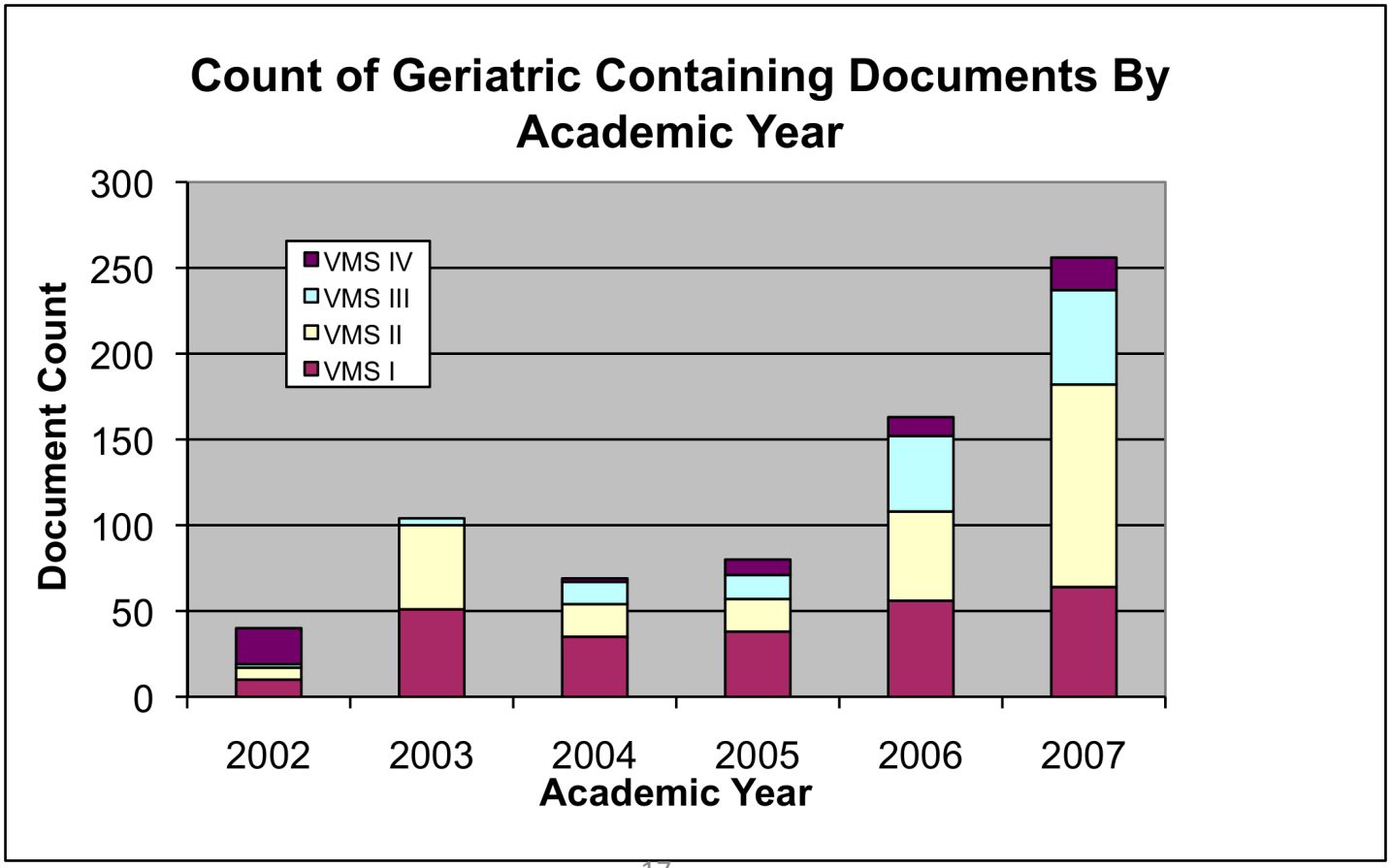
Increasing Geriatric Content in Curriculum

- New initiatives: “intersessions” in third year, chronic care course, focused introductions of lectures in core classes, general VUSM focus for Geriatric education