SUMARELE: RESURSE PENTRU DECIZIA LA PATUL BOLNAVULUI

C Baicus

Medicina interna, Spitalul Colentina Bucuresti

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De retinut:

- Orice informatie: sa se bazeze pe un studiu valid
- Ierarhia dovezii
- Sursele secundare de informatie (cuprind informatie validata)
- Cautarea pe Medline (AND, OR; PICO, Clinical queries)

Cel mai bun tip de studiu in functie de tipul intrebarii

Nivel	Tratament	Prognostic	Diagnostic	Etiologie
I	Analiza sistematica a	Analiza sistematica a	Analiza sistematica a	Analiza sistematica a
II	RCT	Cohorta (Inception)	Transversal	Cohorta
III			RCT Cohorta Caz-martor	Caz-martor

Tipurile de studii

buna

Sinteza Sistematica+Metaanaliza

- I. Studii clinice randomizate
- II. Studii de cohortă
- III. Studii caz-martor
- IV. Studii transversale
- V. Cazuri & serii de cazuri
- VI. Laborator, opinia expertului

slaba

Nivelul dovezii

Nivelul 1.

- 1.a. Sinteză sistematică a unor studii clinice randomizate
- 1.b. Studiu clinic randomizat (RCT).
- 1.c. Studiu tip "toţi sau niciunul" (serie de cazuri).

Nivelul 2.

- 2.a. Sinteză sistematică a unor studii de cohortă.
- 2.b. Studii de cohortă individuale (sau RCT de calitate slabă, de exemplu cu urmărire < 80%).
- 2.c. Studii ecologice.

Nivelul 3.

- 3.a. Sinteză sistematică a unor studii caz-martor.
- 3.b. Studiu caz-martor individual.
- Nivelul 4: Serii de cazuri (sau studii de cohortă ori caz-martor de calitate slabă).
- Nivelul 5: Opinia expertului, sau bazată pe cercetarea preclinică.

Tipurile de studii Nivelul dovezii

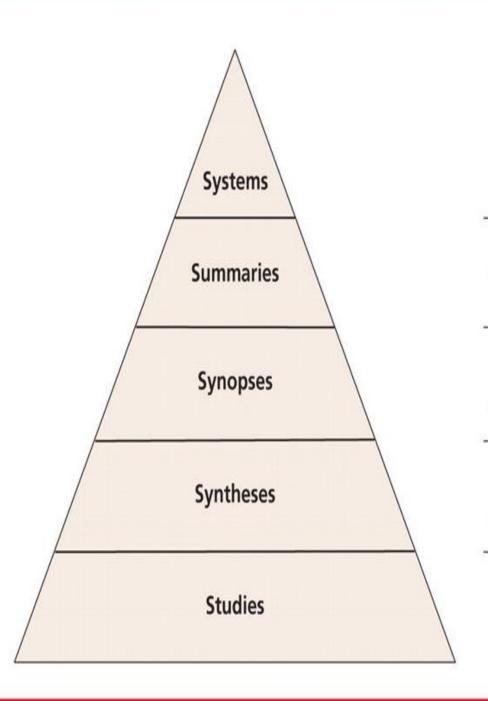
- I. Studii clinice randomizate NIV. 1
- II. Studii de cohortă \rightarrow Niv.2
- \rightarrow Niv.3 III. Studii caz-martor
- serii de cazuri \longrightarrow NIV. 4 VI.
- V. Laborator, opinia expertului > NIV.5

Gradele de recomandare

- **Gradul A** (echivalent cu "Acesta-i tratamentul!"): studii de nivelul 1.
- **Gradul B** (echivalent cu "Poţi aplica acest tratament"): studii de nivelul 2 sau 3 sau extrapolări de la nivelul 1.
- **Gradul C** (echivalent cu "Ar fi mai bine sa nu..."): studii de nivelul 4 sau extrapolări de la nivelul 2 sau 3.
- Gradul D (echivalent cu "Nu trata", sau, mai corect: "nu există nici o dovadă că tratamentul e bun de ceva"): dovezi de nivelul 5 sau studii neconcludente de orice nivel.

Tipurile de studii

I. Studii clinice randomizate → REC A
II. Studii de cohortă
III. Studii caz-martor
IV. Studii transversale
V. (serii de cazuri → REC C
VI. Laborator, opinia expertului→ REC D



Examples

Computerized decision-support systems (e.g., electronic health records)

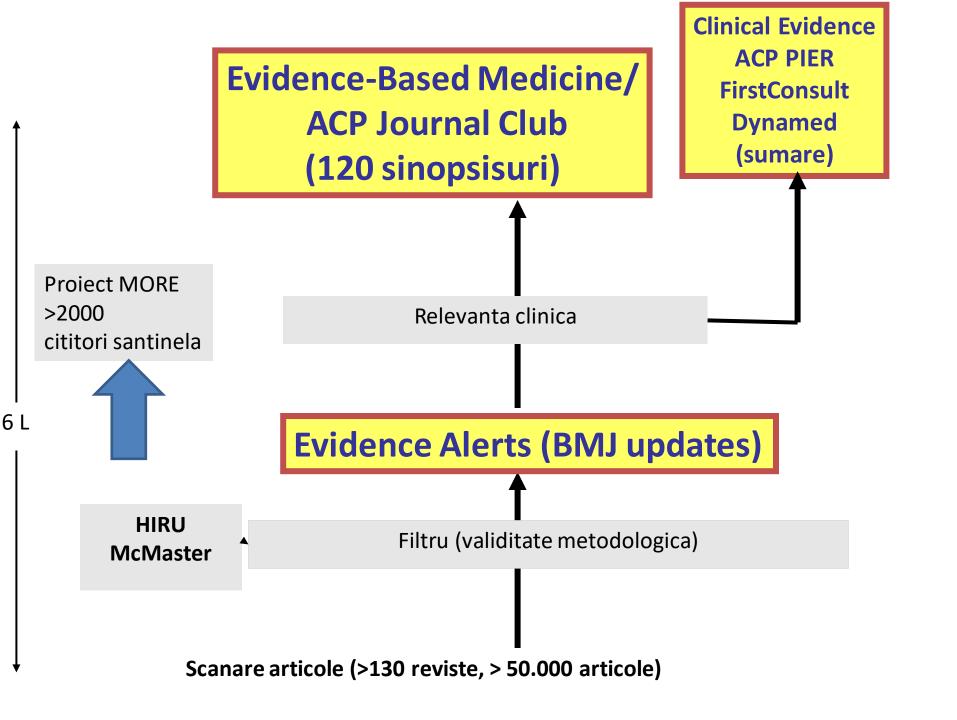
Evidence-based textbooks (sources include online summary publications such as *Dynamed* and *ClinicalEvidence*)

Evidence-based journal abstracts (sources include ACP Journal Club, Evidence-Based Medicine)

Systematic reviews (sources include Cochrane Database of Systematic Reviews and DARE [Cochrane Database of Abstracts of Reviews of Effects])

Original journal articles (sources include Cochrane Central Register of Controlled Trials, PubMed Clinical Queries, MEDLINE)

Strauss, Haynes. CMAJ 2009



Sumare

- Revizuite cel putin anual; fiecare capitol sa aiba trecuta data ultimei revizuiri
- Selecteaza si evalueaza dovezile intr-un mod explicit, descris la inceputul textului.
- Citeaza articolele originale pe care se bazeaza, pentru ca cititorii sa poata vedea data publicarii si eventual ajunge la ele pentru detalii

Clinical decision at the point of care (POC)

Bedside information tools

Original Investigation



May 2014

Clinical Questions Raised by Clinicians at the Point of Care

A Systematic Review

Guilherme Del Fiol, MD, PhD¹; T. Elizabeth Workman, PhD, MLIS²; Paul N. Gorman, MD³

» Author Affiliations | Article Information

JAMA Intern Med. 2014;174(5):710-718. doi:10.1001/jamainternmed.2014.368

- Studii care au examinat intrebarile clinicienilor in contextual ingrijirii clinice
- 11 studii, 7012 intrebari
- 0.57 (0.38-0.77) intrebari/pacient
- S-a cautat raspuns la 51% (36%-66%) dintre intrebari
- Raspunsuri la 78% (67%-88%) dintre cele la care sa cautat raspuns
- 34% trat medicamentos, 24% cauze potentiale simptom, semn, rezultat diagnostic

- Nu s-au cautat raspunsuri:
 - Lipsa timp
 - Dubiu ca exista raspuns

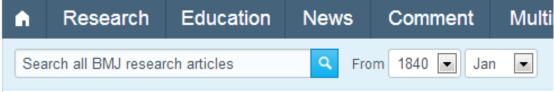
Table 3. Clinical Questions Classified According to th Question Type What is the drug of choice for condition X? What is the cause of symptom X? How should I treat condition X (not limited to drug treatment)? What is the cause of physical finding X? What test is indicated in situation X? What is the dose of drug X? Can drug X cause (adverse) finding Y? What is the cause of test finding X? Could this patient have condition X? How should I manage condition X (not specifying diagnostic or therapeutic)? What is the prognosis of condition X? What are the manifestations of condition X? What conditions or risk factors are associated with condition Y?

Abbreviation: NA, Not available.

80% dintre intrebari

^a Data include the 13 most frequent question types acros:





LEARNING IN PRACTICE

Randomised controlled trial of clinical decision support tools to improve learning of evidence based medicine in medical students

BMJ 2003; 327 doi: http://dx.doi.org/10.1136/bmj.327.7423.1090 (Published 6 November 2003) Cite this as: BMJ 2003;327:1090

Clinical trials (epidemiology) Underg				
Article	Related conte	nt	Read	

Gabriel M Leung, clinical assistant proprofessor (jjohnsto@hku.hk)¹, Keith' senior research assistant¹, Lai-Ming lecturer¹, Tai-Hing Lam, chair profes

Author Affiliations

Abstract

Objective To assess the educational effectiveness on learning evidence based medicine of a handheld computer clinical decision support tool compared with a pocket card containing guidelines and a control.

Design Randomised controlled trial.

Setting University of Hong Kong, 2001.

Participants 169 fourth year medical students.

Nefrologii din Canada:

- 58% dintre universitari
- 91% dintre cei ne-universitari

Încep căutările cu **UpToDate**.

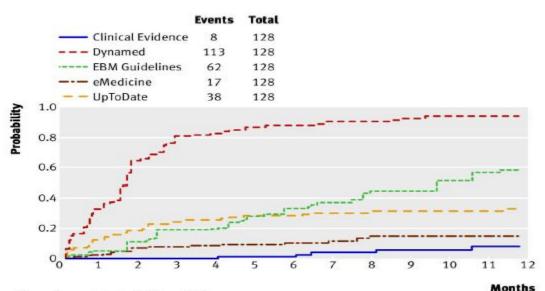
BMJ 2011;343:d5856 doi: 10.1136/bmj.d5856

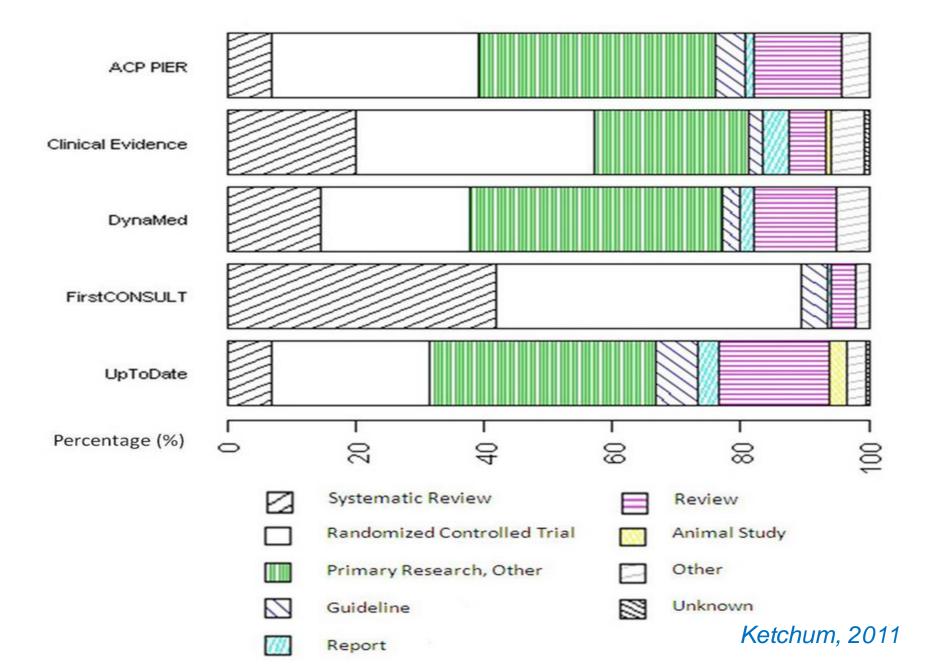
RESEARCH

Speed of updating online evidence based point of care summaries: prospective cohort analysis

© 08 OPEN ACCESS

Rita Banzi *researcher*¹², Michela Cinquini *statistician*², Alessandro Liberati *associate professor*¹³, Ivan Moschetti *general practitioner*¹, Valentina Pecoraro *researcher*¹, Ludovica Tagliabue *medical resident*¹⁴, Lorenzo Moja *assistant professor*¹⁴





• FirstCONSULT a avut cea mai mare proporţie de referinţe cu nivele înalte ale dovezii precum SR şi RCT (137/153, 89.5%), deşi a conţinut cel mai mic număr de referinţe (153/2330, 6.6%).

 DynaMed a avut cel mai mare număr de referințe (1131/2330, 48.5%) şi cea mai mare proporție de referințe recente (170/1131, 15%). Un rezultat neaşteptat a fost acela că gradul de suprapunere al referinţelor a fost mai mic de 1% între toate cele 5 produse



The quality, breadth, and timeliness of content updating vary substantially for 10 online medical texts: an analytic survey

Jeanette C. Prorok^a, Emma C. Iserman^a, Nancy L. Wilczynski^a, Robert B. Haynes^{a,b,c,*}

Results

Quality scores ranged from a high of 9 of 11 points (Clinical Evidence) to a low of 0 of 11 points (PEPID), with a mean score of 6.7. Breadth of coverage ranged from 83% of randomly selected topics covered (UpToDate) to 25% (Clinical Evidence), with 6 of 10 texts covering 60% or more; average coverage across all texts was 57%. Variability was also observed with regard to average time since last content update, ranging from 3.5 (DynaMed) to 29 months (First Consult), with an average time since update of 12.4 months.

Breadth of Coverage

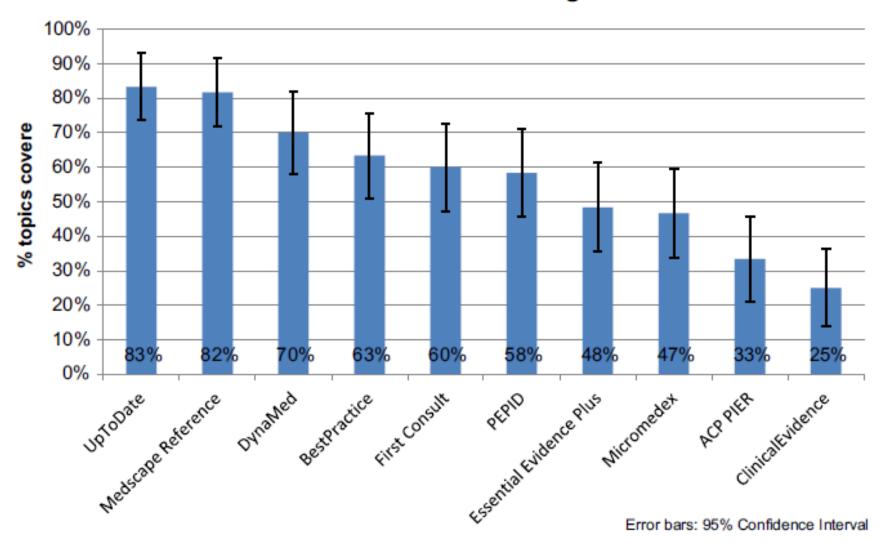


Fig. 1. Percentage of 60 ICD-10 codes covered by each of the selected online texts.

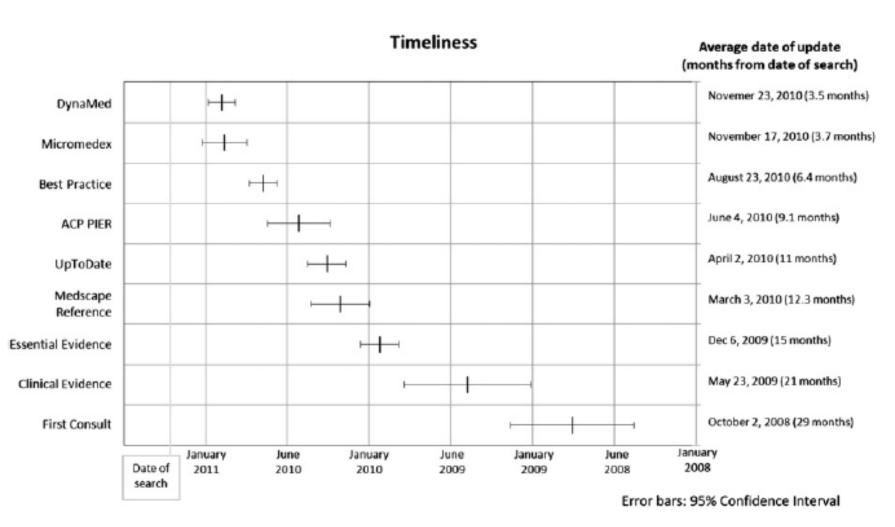


Fig. 2. Timeliness of updates of each of the selected online evidence-based texts.

- 10 resurse online au fost evaluate pt calitate, acoperire, rapiditatea actualizării.
- Au fost variaţii mari în fiecare dintre categorii. Deşi câteva resurse au performat bine în fiecare dintre categorii, niciuna nu a fost ideală.
- Clinicienii nu trebuie să se bizuie pe o singură resursă atunci când vor să ia decizii importante (motoare de căutare în resurse multiple – TRIP database?).



EBM Educational Prescription

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Printable Evaluation Form

Full Evaluation Guidelines

Blank Resident EP Form

Website Tutorial

EP Grading Training

EBM Resources:

Asking Questions

Evidence Databases

Validity Forms

Calculating Results

EBM Glossary

About the EBM EP

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Below are the resident EPs assigned to you that need to be evaluated. You may also search for resident EPs by entering a question id or choosing a resident from the dropdown list provided.

Resident	Due Date	PICO	ID	Status	My Score	View	Evaluate
Leonard Dobre	03/21/2013	Patient with COPD stage 3 GOLD.	DOBRE- 1	Evaluated by other Faculty		View	Evaluate

Filter By:

Resident:

Dobre, Leonard

•

EP ID:

Evaluation Status:

Show Questions Graded By Other Faculty

The state of the state

Search Clear

Faculty Home	View Practice-Based Learning Educational Prescription			
Printable Evaluation Form	You may click here to update your evaluation for this question.			
Full Evaluation	Question ID:	DOBRE-1		
Guidelines	Learner:	Leonard Dobre		
Blank Resident EP Form	Rotation Type:	Not Applicable		
Website Tutorial	Grader:	Cristian Baicus		
	Due Date:	03/21/2013		
EP Grading Training				
EBM Resources:	Case (2–3 sentences):			
Asking Questions	In a patient with COPD stage 3 GOLD, currently in treatment with LABA/ICS combination, would adding inhaled anticholinergics reduce the number of exacerbations or perception of dyspnea?			
Evidence Databases	Question Type:	Foreground		
EVICENCE Databases	Question: (PICO as appropriate)			
Validity Forms	P:			
Calculating Results	Patient with COPD stage 3 GOLD.			
	I:			
EBM Glossary	anticholinergic and laba and ics			
About the EBM EP	C:			
User Preferences	laba and ics			
Log Out	O: number of exacerbations, perception of dyspnea			

Faculty Home

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Full Evaluation Guidelines

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EP Grading Training

EBM Resources:

Asking Questions

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View Practice-Based Learning Educational Prescription

Forcaround

You may click here to update your evaluation for this question.

Question ID: DOBRE-1

Learner: Leonard Dobre

Rotation Type: Not Applicable

Grader: Cristian Baicus

Due Date: 03/21/2013

Case (2-3 sentences):

In a patient with COPD stage 3 GOLD, currently in treatment with LABA/ICS combination, would addinumber of exacerbations or perception of dyspnea?

Augetian Tuna

ACP Journal Club

BMJ Clinical Evidence

Cochrane Database of Systematic Reviews

Database of Abstracts of Reviews of Effects (DARE)

Essential Evidence Plus

Google Scholar

MD Consult

PubMed

Up-to-Date

0:

number of exacerbations, perception of dyspnea



Educational Prescription Grading Guidelines

	Not Yet Competent	Competent	Superior
Searching	question Foreground: Uses textbook or Up-to-Date Inappropriately used PubMed/Medline as first source Inappropriate search terms Inappropriate limits Background: Uses primary resources	question. Foreground: Therapy searches start with secondary resource including Cochrane unless compelling reason Only uses PubMed/Medline after secondary sources Does not use Cochrane or Clinical Evidence for non-therapeutic/ prevention questions Search terms appropriate Background: Uses textbook, Up-to-Date, Clinical Evidence, etc. as appropriate	Foreground: • Appropriate synonyms are used (Cochrane, DARE, ACP JC) -OR- • Limits by question type appropriately used in PubMed (Clinical Queries) Background: • N/A
Evaluation of Evidence and Results	Foreground: Uses incorrect critical appraisal sheet for question type Does not recognize other major potential	Foreground: • Addresses major questions from appropriate critical appraisal sheet • Identifies other major potential causes of bias	Foreground: • Addresses all questions from appropriate critical appraisal sheet • Identifies all potential causes of bias



EBM Educational Prescription

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Resident Participation

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First	Last	EP's Completed	EP's Graded	EP's Pending
Cristian	Baicus	1	1	0
Ioana	Berza	1	1	1
Bogdan	Busuioc	0	0	1
Ovidiu	Ciobotaru	1	0	0
Ioana	Cociasu	1	1	0
Leonard	Dobre	1	1	0
Alexandru	Draghici	1	1	0
Alexandra	Frentescu	1	1	0
Cristina	Garbulet	1	1	0
Roxana	Giurcan	0	0	0
Cristian	Gutu	0	0	0
Alexandra	Gutu	1	1	0
Dana Miruna	lancu	1	1	0
Alexandra	lernici	0	0	0

Date EP Cr	eated
to	

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Evidence-based clinical reference updated daily

FREE TRIAL

ASH ANNUAL MEETING

Stop by the *DynaMed* booth (#2013) at the 2012 American Soceity of Hematology (ASH) Annual Meeting and Exposition in Atlanta, GA, December 8-11.

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DYNAMED RANKS HIGHEST AMONG CLINCIAL REFERENCE RESOURCES

DynaMed has ranked highest among ten online clinical resources in a new study in the Journal of Clinical Epidemiology.

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BMJ RESEARCH ARTICLE







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EDUCATION FOR CLINICIANS IN TRAINING



Residents in all specialties are now expected to conduct scholarly effort during training. The *DynaMed* Editors are committed to contributing to the medical training of health care professionals by providing scholarly effort opportunities. Residents and students can co-review *DynaMed* topics with a supervising faculty member who has clinical practice experience.

Residency and allied health care training programs

benefit two-fold:

- Residents and students have the opportunity to learn critical appraisal, evidence synthesis and other evidence-based processes
- Faculty can provide real-time, hands-on opportunities for residents and students in which to
 evaluate clinical learning, evidence evaluation and use of a clinical resource to improve patient care

Traditional research and publication efforts do not routinely adapt to residency program schedules. At DynaMed, we can tailor review opportunities to fit specific topics of interest and adjust deadlines to meet residency program schedules.

Additional benefits for Residency Programs participating in DynaMed peer review include:

An additional educational opportunity for residents and students to learn critical appraisal, evidence

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- 2. Teodora Ursica: *Pulmonary sarcoidosis*
- 3. Paul Balanescu: Cardiac sarcoidosis
- 4. Camelia Dragoi/Cristian Guţu: Aortic stenosis
- 5. Ciprian Olaru/Alexandra Guţu: Dyspnea
- 6. Bogdan Ivanus/ Andrei Voiosu: Gastroesophageal variceal hemorrhage primary prophylaxis
- 7. Daniela Mihai/Mirela Enache: Acute cholecystitis
- 8. Meda Apetroae: Eosinophilic esophagitis
- 9. Ioana Ion: Malignant hyperthermia; Huntington disease
- 10. Caterina Delcea: Andersen-Tawil syndrome
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 Romania Internal Medicine
- Emory University School of Medicine, Atlanta, GA Internal Medicine
- Grand Rapids Medical Education and Research Center, Grand Rapids, MI Family Medicine
- Harvard Medical School/Cambridge Health Alliance, Cambridge, MA Internal Medicine
- Mayo Clinic, Rochester, MN Adult Neurology
- Middlesex Hospital, Middletown, CT Family Practice
- Phoenix Baptist Hospital, Phoenix, AZ Family Medicine
- Southern Illinois University, Carbondale, IL Family Medicine
- St. Elizabeth Medical Center, Youngstown, OH Family Practice
- St. Joseph Mercy Hospital, Ypsilanti, MI Internal Medicine
- St. Vincent Hospital, Worcester, MA Internal Medicine
- University of Massachusetts Medical School, Worcester, MA General Practice Residency in Dentistry
- University of Tennessee Graduate School of Medicine, Knoxville, TN Family Medicine
- University of Wisconsin, Eau Claire, WI Family Medicine
- Waukesha Memorial Hospital, Waukesha, WI Family Medicine
- West London Mental Health NHS Trust, London UK
- West Virginia University, Charleston, WV Internal Medicine

Studii

BMJupdates+→Evidence Updates → Evidence Alerts MEDLINE / Clinical Queries

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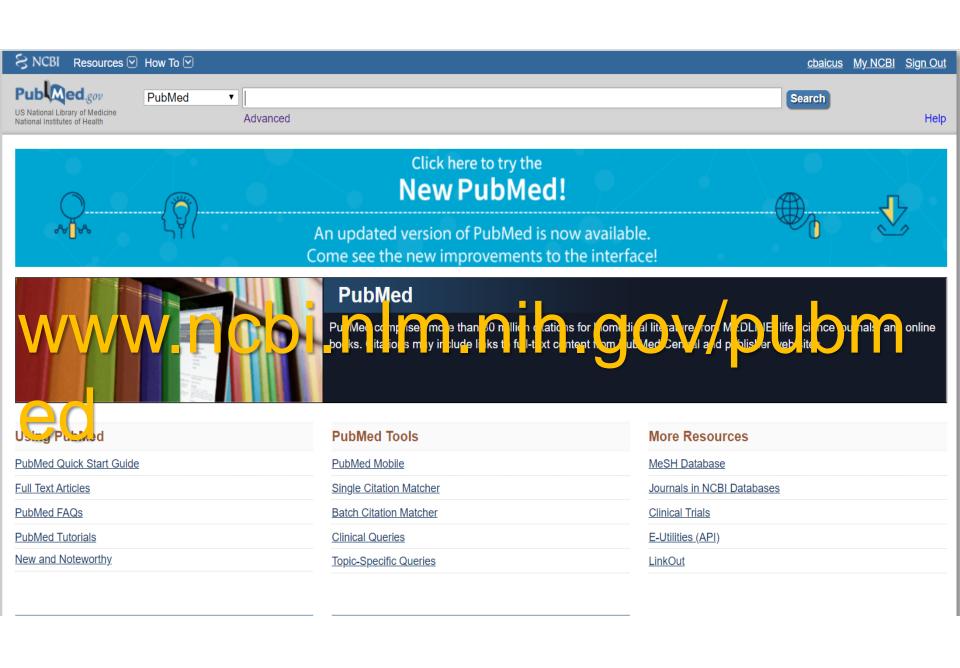
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- Paracenteza la pacient anticoagulat
- IECA sau sartani in insuficienta cardiaca?
- Tratamentul b. Takayasu / prognostic
- Dg diferential al adenopatiilor benigne/maligne prin ecografie
- Pacienta sondata urinar: diferenta colonizare/infectie urinara