

Como Fazer Pesquisa Bibliográfica com Eficácia?



ACTA MÉDICA
PORTUGUESA

Importância da Pesquisa Bibliográfica

- Tenha a certeza que a sua revisão da literatura é abrangente e actual
- Uma bibliografia que não inclui artigos-chave na área ou que cita artigos desactualizados é motivo para rejeição do manuscrito
- Falhar na apresentação de uma lista de referências precisa e actualizada pode encorajar os revisores a serem mais críticos

Objectivo da Pesquisa Bibliográfica

- Pesquisa ideal
 - Incluir artigos relevantes
 - Excluir artigos irrelevantes

Optimizar a Pesquisa

- Conhecer



- Como a literatura está organizada ou indexada

- Como as Bases de Dados diferem

- Estratégia de Pesquisa

Gerir a Informação

2 estratégias de Pesquisa

- Passiva  *Just in case* - informação relevante encontra o médico interessado, em vez de ser o médico a procurá-la
- Activa  *Just in time* – pesquisa por respostas a questões clínicas
- Ambas estratégias podem ser informadas por fontes ***Push*** e ***Pull***

Gerir a Informação

Métodos Push e Pull

- **Pull** – procurar, encontrar a informação quando é necessária, o utilizador procura activamente a informação - puxa
- **Push** – alertam para nova informação, a informação alcança o utilizador - empurrada

Método Pull

- Motores de meta-pesquisa
 - SUMsearch <http://sumsearch.org>
 - TRIPdatabase <http://www.tripdatabase.com>

Método Pull

- Estrutura hierárquica dos 5 S:
 - Excelente estratégia para encontrar respostas clínicas
 - Representa uma pirâmide com níveis de organização da evidência

Pirâmide 5S de Haynes

Systems

Examples

Computerized decision support



Summaries

Evidence-based textbooks



Synopses

Evidence-based journal abstracts



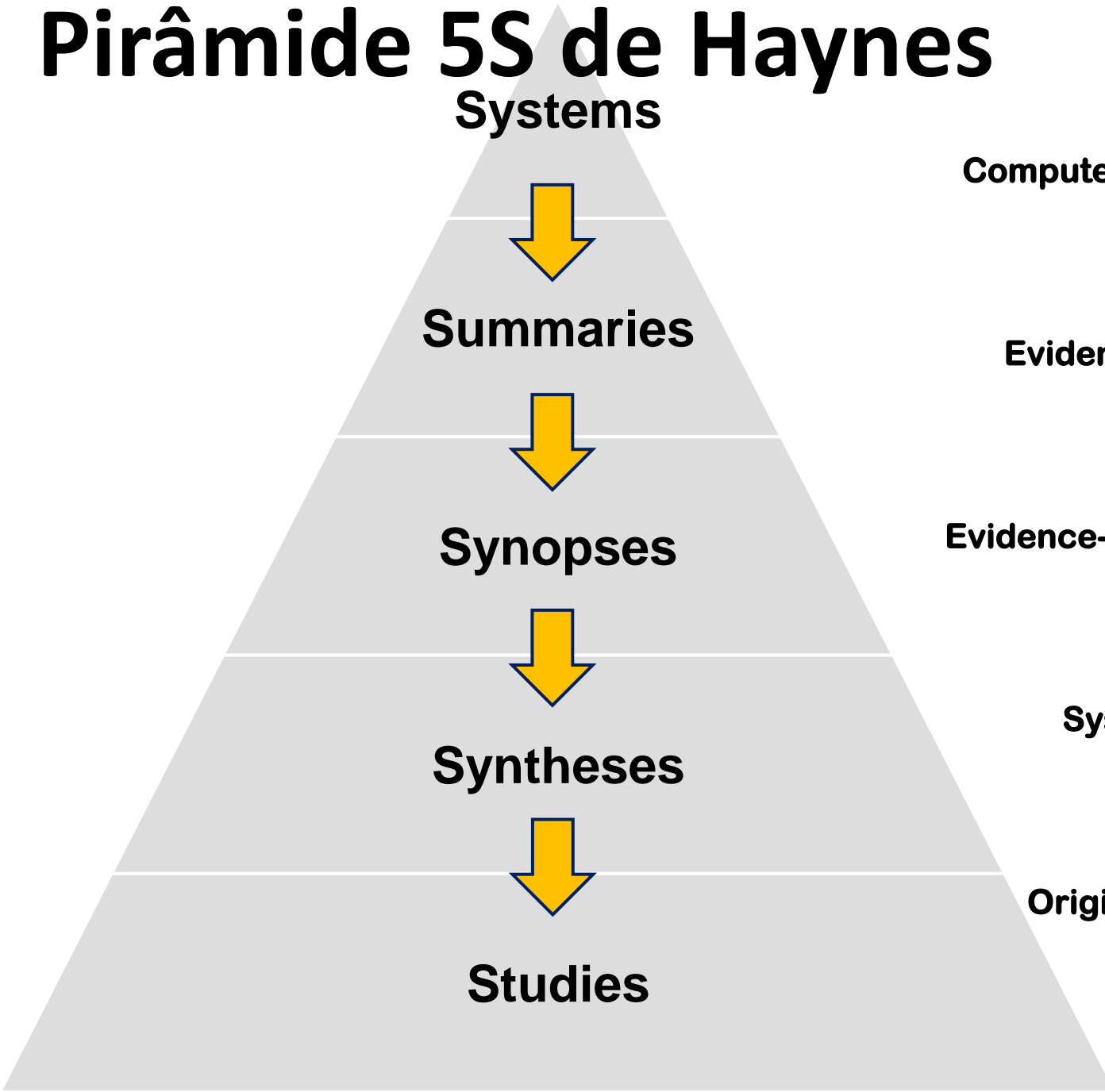
Syntheses

Systematic reviews



Original journal articles

Studies



5S de Haynes

- **Systems** são programas inteligentes, computadorizados, de apoio à tomada de decisão clínica. Resolvem questões clínicas
- **Summaries** são resumos de vários estudos sobre um tema e guias prática clínica
- **Synopses** resumos estruturados de artigos e revisões
- **Syntheses** a síntese da evidência ou revisões sistemáticas
- **Studies** estudos originais na base

Summaries: Clinical Evidence

ClinicalEvidence

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Clinical Evidence is one of the world's most authoritative medical resources for informing treatment decisions and improving patient care.

Latest updated reviews

- [Secondary prevention of ischaemic cardiac events](#) (updated)
- [Heart failure](#) (updated)
- [Fungal toenail infections](#) (updated)
- [Cervical cancer](#) (updated)
- [Brain metastases](#) (updated)

<http://www.clinicalevidence.com>

Summaries: UpToDate

The screenshot shows the UpToDate website interface. At the top left is the UpToDate logo, a green 'U' in a circle. Below it is the text 'UpToDate®'. To the right of the logo is a navigation menu with 'File', 'Go', 'Search', 'About...', and 'Recent Topics'. The main content area is divided into two sections. The left section features a large green clock face with the text 'UpToDate®' in a large, green, serif font, and '9.1' in a large, black, serif font below it. The right section has the heading 'Did you know?' in a bold, black, serif font, followed by the text 'UpToDate is now available on the internet. Point your browser to www.uptodate.com'. At the bottom of the page, there is a search bar with the text 'Search term' and a 'Clear' button. To the left of the search bar is a box labeled 'SPECIALTIES' with the text 'Adult Primary Care' below it.

<http://www.uptodate.com>

Summaries: DynaMed



glaucoma

Search



◀ Result List 1 of 249 ▶

Glaucoma

- **Updated 2012 Jun 30 10:45:00 AM:** iStent Trabecular Micro-Bypass open-angle glaucoma and cataract (FDA Press Release 2012 Jun 25) [view](#)

Related Summaries:

- [Physician Quality Reporting System Quality Measures](#)

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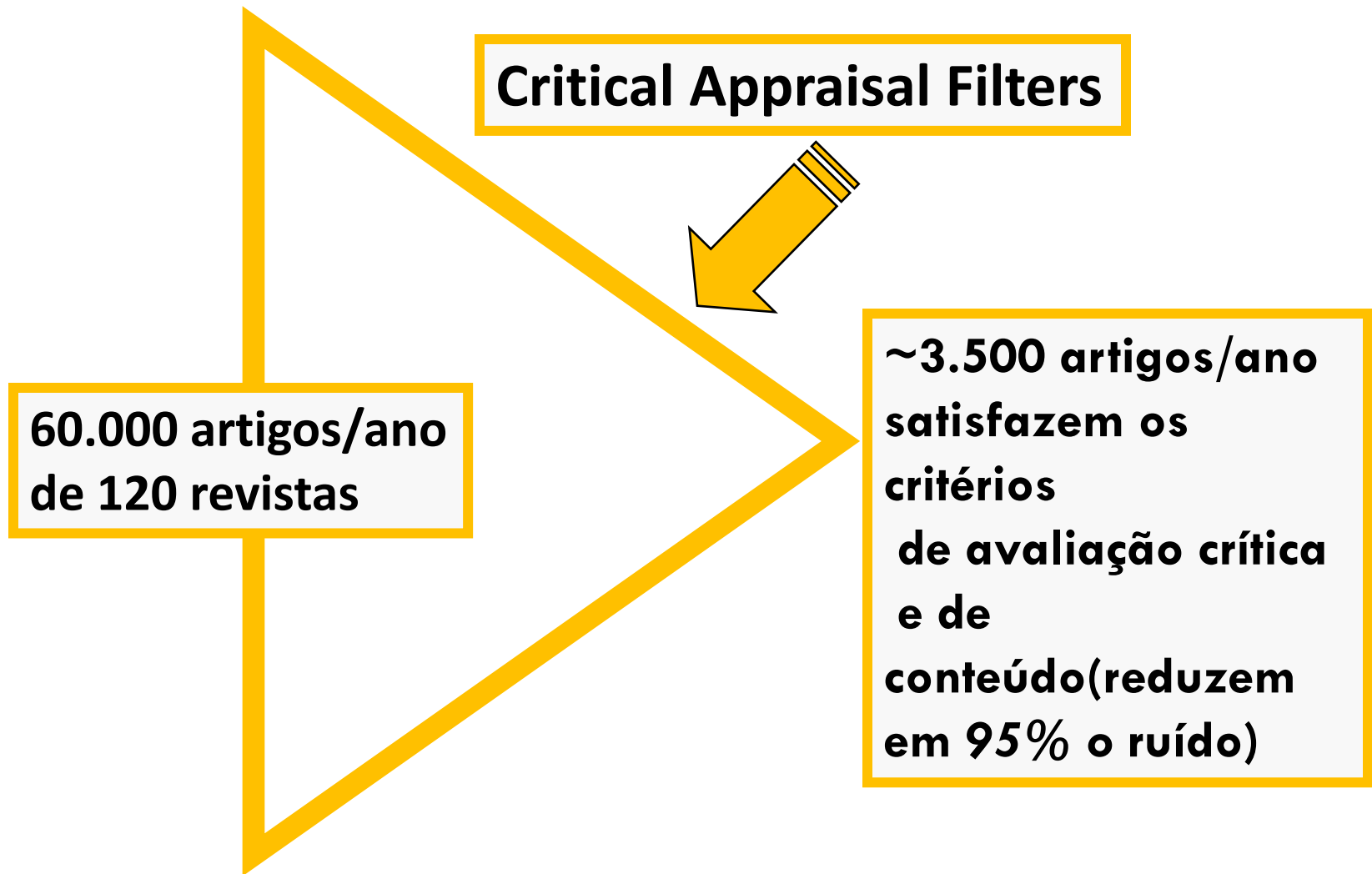
Summaries: Best Practice

Janeiro 2009



<http://bestpractice.bmj.com>

Synopses: Evidence-Based Journals



Synopses



ACP JOURNAL CLUB

Evidence-Based Medicine for Better Patient Care

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Today's Featured Articles

The articles featured below appear in the November/December 2002 issue of *ACP Journal Club*. Click on the article title or see the full [Current Issue](#).

- ▶ **Losartan reduced strokes and new-onset diabetes more than atenolol in essential hypertension**
- ▶ **Losartan reduced cardiovascular morbidity and mortality more than atenolol in patients with diabetes and essential hypertension**
- ▶ **Review: Antibiotic prophylaxis reduces mortality and bacterial infection in cirrhosis and gastrointestinal bleeding**
- ▶ **Review: Magnetic resonance angiography is accurate for detecting high-grade carotid artery stenosis that is suitable for surgery**

<http://ebm.bmj.com>

<http://www.acpjc.org>

Syntheses: The Cochrane Library

Address  http://www.cochrane.org/reviews/

cochrane collaboration > cochrane reviews

Cochrane Reviews: abstracts & full-text access

See also: [access & subscribing](#), [Cochrane Library introduction](#), [user training](#), [impact of Cochrane evidence](#)

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Syntheses: PubMed Clinical Queries



U.S. National Library of Medicine
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Systematic Reviews

Results: 5 of 68

Neurologic urinary incontinence.

[Neurourol Urodyn. 2010]

Gait apraxia in multiple sclerosis.

[Can J Neurol Sci. 2009]

Clinical guideline for male lower urinary tract symptoms.

[Int J Urol. 2009]

EAU guidelines on chronic pelvic pain.

[Eur Urol. 2010]

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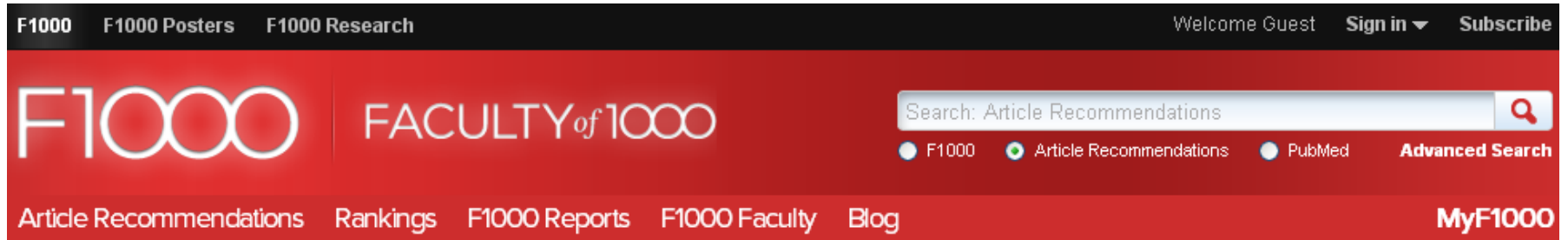
[Clinical Queries](#)

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Studies

- Quando todos os outros **Ss** falham temos os *Studies*
- *Studies* são os estudos originais

Método Pull



- Sistematiza, organiza e avalia a literatura científica
- Destaca os artigos mais relevantes, baseado nas recomendações de mais de 1.000 investigadores de topo
- F1000 é gerido “by scientists for scientists”

<http://f1000.com>

Método Pull

http://www.scirus.com

SCIRUS
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Search

Método Pull

<http://www.embase.com>

embase
BIOMEDICAL ANSWERS

Welcome to Embase!

With over 24 million indexed records and more than 7,600 currently indexed peer-reviewed journals, Embase is a highly versatile, multipurpose and up-to-date database covering the most important international biomedical literature from 1947 to the present day. All MEDLINE records produced by the National Library of Medicine (NLM) are included, as well over 5 million records not covered on MEDLINE.

Core strengths of Embase include coverage and in-depth indexing of the drug-related and clinical literature, with a particular focus on comprehensive indexing of adverse drug reactions; emphasis on Evidence Based Medicine (EBM) indexing including systematic reviews, and coverage and indexing of journals and articles relevant to the development and use of medical devices.

If you are searching for answers to your questions or simply need reliable, peer-reviewed information on topics such as drug development or use, toxicology, drug safety / adverse drug reactions, clinical trials, evidence based medicine, medical devices, pharmacoeconomics, preclinical reports, basic biomedical science or regulatory affairs, then Embase is the solution you are looking for.



Método Pull

<http://www.indexrmp.com>



Index *Online*
Revistas Médicas Portuguesas

Revistas e Publicações Objectivos

Base de dados da literatura e das teses médicas exclusivamente nacionais

HOME PAGE Patrocinador : **Bial**

Identificação :

Password :

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Página otimizada para Internet Explorer 

Método Pull

PublMed

- Alguns títulos dos artigos estão entre parênteses rectos. Porquê?

Parênteses indicam que o título foi traduzido e que o artigo é publicado noutra língua que não o inglês

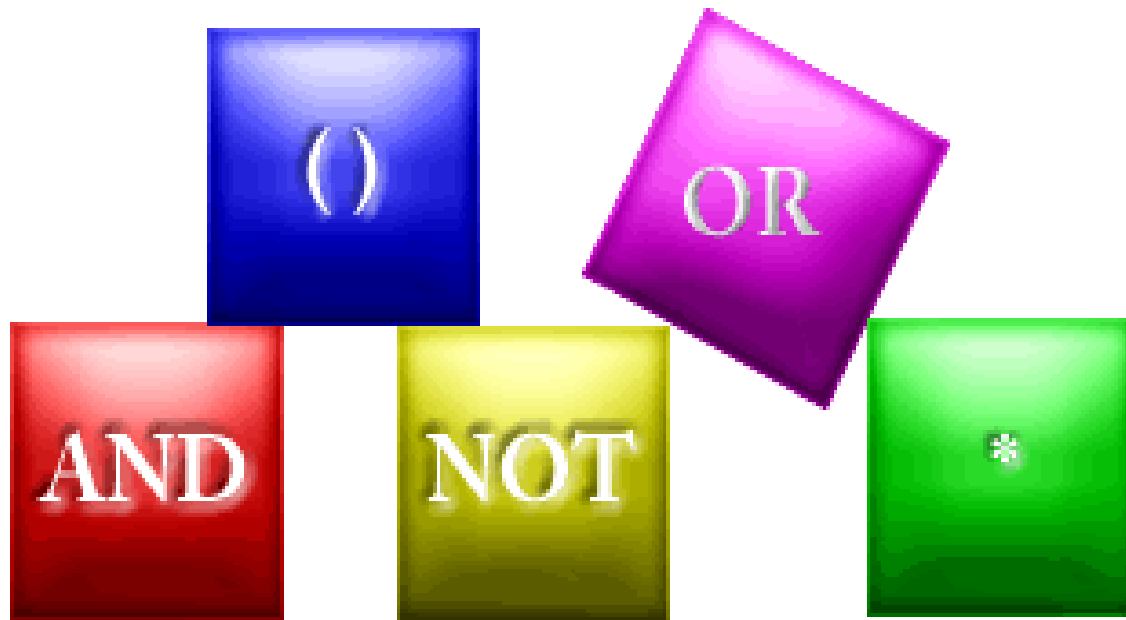
[\[The portuguese pharmacovigilance system\].](#)

Herdeiro MT, Ferreira M, Ribeiro-Vaz I, Junqueira Polónia J, Costa-Pereira A.

Acta Med Port. 2012 Jul;25(4):241-9. Epub 2012 Aug 31. Portuguese.

PMID: 23079252 [PubMed - in process] **Free Article**

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“kidney allograft”; “health planning”; “heart failure”;

Truncatura: Comorbidity* - Comorbidities
- Comorbidity

“common cold” AND (“vitamin c” OR zinc)

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- [\[Sister Mary Joseph's Nodule\].](#)
 1. Esperto H, Canha C, Meira E.
Acta Med Port. 2012 Jul;25(4):258. Epub 2012 Aug 31. Portuguese. No abstract available.
PMID: 23079256 [PubMed - in process] **Free Article**
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- [\[Typical Findings of Takayasu Arteritis in Aortic Angio-CT\].](#)
 2. Lourenço CS, Basso SP, Dionisio MA.
Acta Med Port. 2012 Jul;25(4):257. Epub 2012 Aug 31. Portuguese. No abstract available.
PMID: 23079255 [PubMed - in process] **Free Article**
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- [\[The diagnostic challenge of a rare pulmonary neoplasm\].](#)
 3. Oliveira E, Manuel P, Alexandre J, Campos A, Simões Torres A, Girão F.
Acta Med Port. 2012 Jul;25(4):253-6. Epub 2012 Aug 31. Portuguese.
PMID: 23079254 [PubMed - in process] **Free Article**
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- [\[Bilateral facial palsy and acute myeloid leukemia: an unusual association\].](#)
 4. Pereira MS, Faria F, Menezes Falcão L.
Acta Med Port. 2012 Jul;25(4):250-3. Epub 2012 Aug 31. Portuguese.
PMID: 23079253 [PubMed - in process] **Free Article**
[Related citations](#)

- [\[The portuguese pharmacovigilance system\].](#)
 5. Herdeiro MT, Ferreira M, Ribeiro-Vaz I, Junqueira Polónia J, Costa-Pereira A.
Acta Med Port. 2012 Jul;25(4):241-9. Epub 2012 Aug 31. Portuguese.
PMID: 23079252 [PubMed - in process] **Free Article**
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Vantagens no uso dos termos MeSH

- Representa um conceito e não necessita sinónimos
- Permite encontrar artigos relevantes sobre um tópico que pode não vir explicitamente mencionado no título ou resumo
- Aumenta a eficiência da pesquisa
- Permite a obtenção de resultados completos e fiáveis
- Permite focar a pesquisa eliminando referências irrelevantes
- Diminui o ruído, proporcionando maior precisão

Desvantagens no uso dos termos MeSH

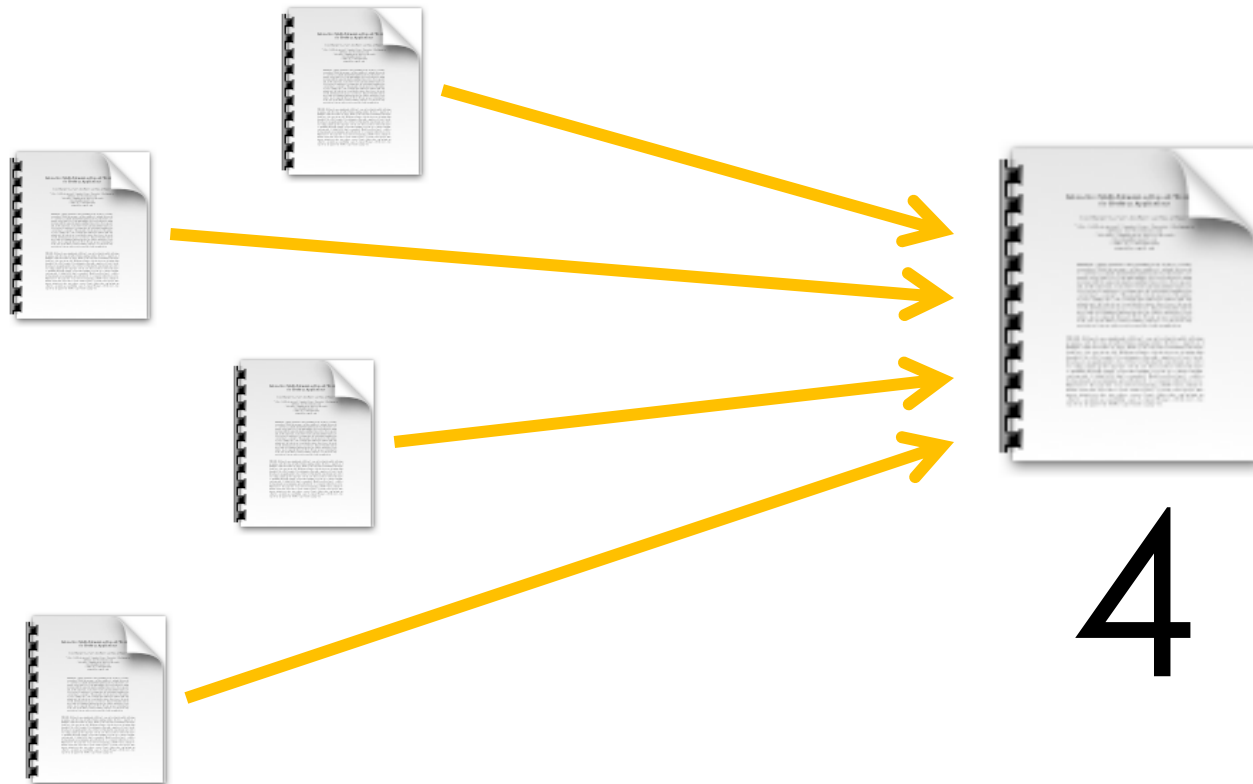
- Pode não haver termos que cubram todos os conceitos, especialmente novos conceitos
- Artigos com as etiquetas *as supplied by publisher* e *PubMed - in process* ainda não têm termos MeSH atribuídos

Web of Science: Science Citation Index



- Indexa mais de 23.000 revistas científicas, cobrindo mais de 256 áreas
- Science Citation Index (SCI) é uma secção do Web of Science
- SCI cobre + 8.000 revistas
- Afirmam que só 3.000 revistas de topo, recebem 92% do total de citações

Contagem de citações



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1. Title: **OXIDATIVE STRESS AND ITS EFFECTS ON INSULIN RESISTANCE AND PANCREATIC beta-C with Type 2 Diabetes Mellitus Complications**

Author(s): Lopes, J. Pedro; Oliveira, Silvia M.; Fortunato, J. Soares

Source: **ACTA MEDICA PORTUGUESA** Volume: 21 Issue: 3 Pages: 293-302 Published: MAY-JUN 2008

Times Cited: 9 (from Web of Science)



[View abstract](#)

2. Title: **TRENDS OF INTERNET Use for Health Matters in Portugal: 2005-2007**

Author(s): Santana, Silvina

Source: **ACTA MEDICA PORTUGUESA** Volume: 22 Issue: 1 Pages: 5-14 Published: JAN-FEB 2009

Times Cited: 5 (from Web of Science)



[View abstract](#)

3. Title: **Fluid intake and overweight risk in children**

Author(s): Bessa, Mariana; Valente, Hugo; Cordeiro, Tania; et al.

Source: **ACTA MEDICA PORTUGUESA** Volume: 21 Issue: 2 Pages: 161-169 Published: MAR-APR 2008

Times Cited: 4 (from Web of Science)



[View abstract](#)

4. Title: **FOODS AND NUTRIENTS MODULATES THE RELEASE OF GASTROINTESTINAL HORMONE**

Author(s): Pimentel, Gustavo D.; Zemdegs, Juliane C. S.

Source: **ACTA MEDICA PORTUGUESA** Volume: 23 Issue: 5 Pages: 891-900 Published: SEP-OCT 2010

Times Cited: 3 (from Web of Science)

Journal Citation Reports

Rank	Abbreviated Journal Title <i>(linked to journal information)</i>	ISSN	JCR Data ⁱ						Eigenfactor [®] Metrics ⁱ	
			Total Cites	Impact Factor	5-Year Impact Factor	Immediacy Index	Articles	Cited Half-life	Eigenfactor [®] Score	Article Influence [®] Score
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2	ACTA CLIN CROAT	0353-9466	126	0.254		0.000	60	4.3	0.00032	
3	ACTA MEDICA MEDITERR	0393-6384	5	0.031		0.000	19		0.00000	
4	ACTA MEDICA PORT	1646-0758	208	0.091		0.009	115	7.1	0.00037	
5	AFR HEALTH SCI	1680-6905	330	0.492		0.000	64	5.0	0.00117	
6	AM FAM PHYSICIAN	0002-838X	3662	1.531	1.776			7.7	0.00632	0.492
7	AM J CHINESE MED	0192-415X	1706	1.979	1.670	0.229	96	6.2	0.00246	0.280
8	AM J MANAG CARE	1088-0224	2621	2.458	2.540	0.358	134	5.5	0.01122	1.139
9	AM J MED	0002-9343	22346	5.430	4.875	0.907	162	>10.0	0.03538	1.793
10	AM J MED SCI	0002-9629	3749	1.391	1.393	0.295	200	9.6	0.00729	0.436

Journal Citation Reports

1	<u>CA-CANCER J CLIN</u>	101.780
1	<u>CIRCULATION</u>	14.739
1	<u>J AM ACAD CHILD PSY</u>	6.444
1	<u>J INVEST DERMATOL</u>	6.314
1	<u>HUM REPROD UPDATE</u>	9.234

Todas têm o mais elevado factor de impacto na sua categoria

Método Push

- **Push** – alerta para nova informação
- Informação de alta qualidade é enviada para a sua caixa de correio de acordo com um critério pré-estabelecido, terá a evidência a encontrá-lo
- Recursos para se manter *up-to-date*

Método Push



Medscape Best Evidence

<http://www.medscape.com/pages/features/newsletters/bestevidence/fmipc>



<http://www.tripdatabase.com>



<http://plus.mcmaster.ca/EvidenceUpdates>



<http://www.journaltoCs.hw.ac.uk>

Conclusão

- A melhor prática clínica significa estar a par dos melhores trabalhos – métodos *PULL* e *PUSH*
- Para ultrapassar a torrente de informação e manter-se *up-to-date* – método *PUSH*
- O objectivo último é que a informação relevante o encontre, em vez de ser ao contrário
- Apresentámos um selecção de recursos actuais e de alta qualidade que esperamos sejam úteis

Acta Médica Portuguesa

<http://www.actamedicaportuguesa.com>

