循证医学之证据检索

2019.3

主要内容



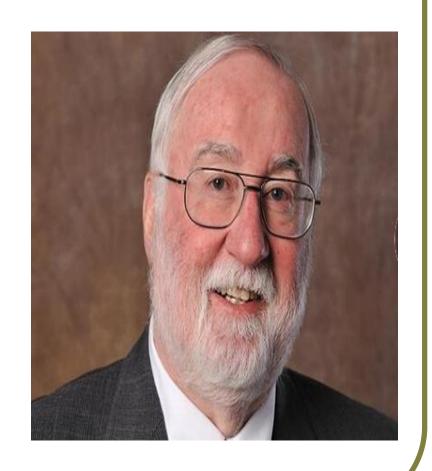
- 一. 概况
- 二. 临床实践的步骤
- 三. 证据种类
- 四. 证据检索

循证医学的先驱



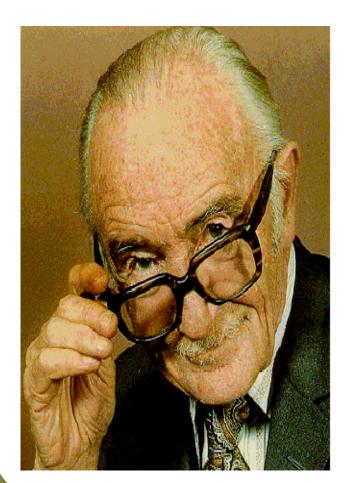
- Evidence Based Medicine EBM
- 循证医学是有意识地、明确地、 审慎地利用现有最好的证据制 定病人的诊治方案。实施循证 医学意味着医生要参照最好的 研究证据、临床经验和病人的 意见。

—David L. Sackett (1934-2015)



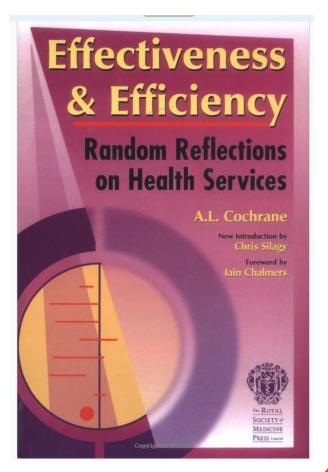
循证医学的先驱





Archie Cochrane (英国, 1909-1988)

1972 年, 其力作《疗效与效益:健康服务中的随机反映》问世。 这部经典巨著催生了循证医学的诞生。



循证医学的先驱

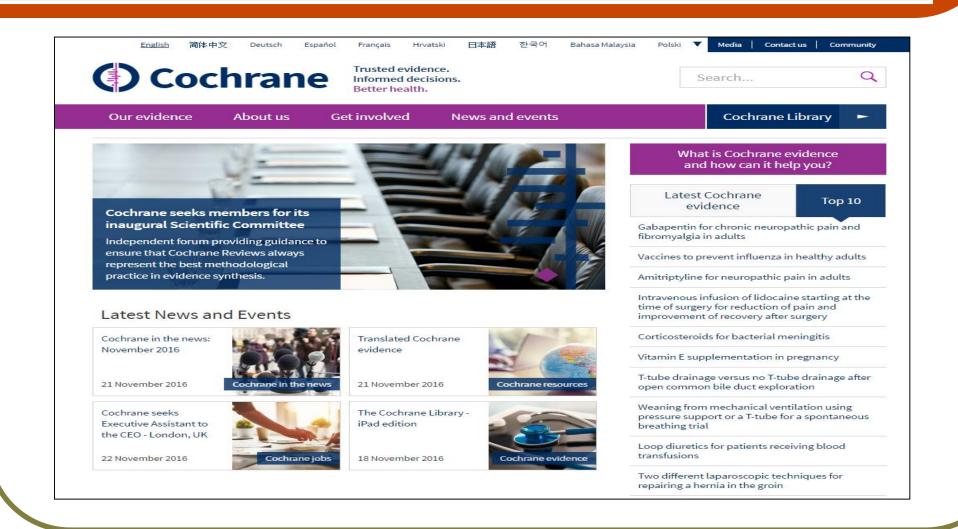




- ◆ Iain Chalmerts (英国, 1943-
- ◆ 对有早产倾向的产妇使用糖皮质激素有效减少早产儿呼吸窘迫综合征的出现。
- **◆ Cochrane协作网创始人之一**

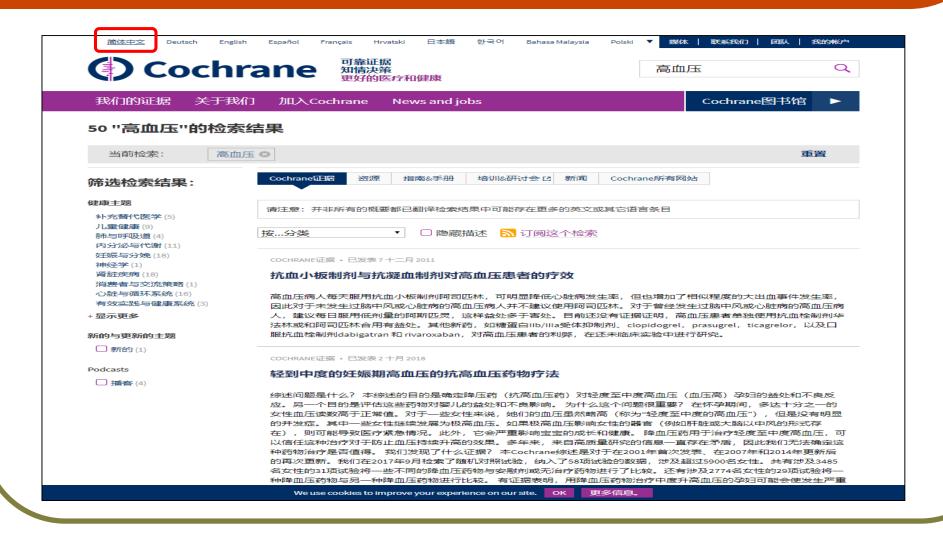
Cochrane协作网 www.cochrane.org





Cochrane协作网中文版





二. 临床实践的步骤



- 1. 构建临床问题
- 2. 检索相关文献
- 3. 严格评价文献
- 4. 应用最佳证据
- 5. 不断提高改进

1.构建临床问题



- □ 构建临床问题 _ 国际通用PICO原则
 - P 病人或疾病(即问题) Patients/Problems
 - 一)干预 Intervention
 - Comparison(optional)
 - o 临床结局 Outcome
- ◆ 研究设计 Study (etiology/diagnosis/therapy/prognosis)

临床问题举例



PICO



一位64岁肥胖的男性病人,尝试用各种方式减轻体重。他向王医师呈交一篇报道: "肥胖者的福音"——壳聚糖(chitosan),患者想了解服用壳聚糖对他减肥是否有效,但王医师凭借以往经验无法给出答案。

Р	I	С	0
肥胖病人 Obesity overweight	売聚糖 chitosan	是否有对照组 (not clear)	减轻体重 Weight

S 治疗 therapy

临床问题举例



- 构建不够好的问题壳聚糖对肥胖病人有效吗?
 - I P
- ◆ 构建良好的问题壳聚糖与奥利斯他相比是否更能降低肥胖病人的脂肪吸收?

I C P O

2.检索相关文献



12

- 根据提出的临床问题,确定"检索词"
- 利用各种权威的检索系统检索相关文献。
 - 原始研究
 - 二次研究
- 从检索结果中找出与问题关系密切的资料,作为分析评价之用。
- 文献检索虽是循证医学实践中的一个环节,但检索策略的制定很重要。

EBM资源



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- Cochrane Library: Cochrane协作网建立 http://www.thecochranelibrary.com
- PubMed: 美国国立医学图书馆创建 http://ncbi.nlm.nih.gov/PubMed
- BMJ Best Practice: BMJ创建
 http://bestpractice.bmj.com
- 中文生物医学文献数据库 (CBM): 中国医学 科学院医学信息研究所研制

3. 严格评价文献



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- 应用临床流行病学及EBM质量评价标准,从证据的真实性、可靠性、临床价值及其适用性作出具体的评价。
- 如果收集的合格文献较多的话,可以作系统评价 (systematic review) 和Meta-分析(metaanalysis)
- 学习循证医学最好的方法是制作一篇系统评价。

学习系统评价的历程



- 1、提出问题,确定系统评价的题目
- 2、与相关的Cochrane系统评价组联系,申请注册题目
- 3、题目批准后,根据协作网提供的RevMan软件和Handbook制作系统评价的 protocol
- 4、计划书完成后提交协作网,接受评价组的修改
- 5、修改到编辑部满意后,发表在CL上
- 6、完成SR全文并送协作网审批
- 7、再修改直到发表在CL上
- 8、跟踪本课题的进展,随时更新。

摘自丁香园

系统评价手册



《Cochrane 干预措施系统评价手册》 中文翻译版

The Translation of Cochrane Handbook for Systematic Reviews of **Interventions**

总审校 李静 张鸣明

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系统评价手册



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系统评价手册



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Citations Month X,200X'非索引记录文件。关于这一问题的进一步指导,联系试验检索协调员。

6.4.13 检索策略示范

框6.4 e提供了一个主题为"它莫西芬治疗乳腺瘤"的CENTRAL检索策略演示。注意:它仅包括主题词(随机对照试验过滤器不适合CENTRAL)。没有限制于人类。该策略只用于演示目的:检索CENTRAL中研究以纳入系统评价时针对每一个概念需要更多的检索词汇。

框6.4.f提供一个主题为 "它莫西芬治疗乳腺瘤"的Ovid MEDLINE检索策略演示。 注意MEDLINE使用了主题词和一个随机对照试验过滤器,检索仅限于人类。提供这一 策略仅作为演示目的:检索MEDLINE中研究以纳入系统评价时针对每一概念需要更多 的检索词汇。

框6.4.e 主题为"它莫西芬治疗乳腺癌"的CENTRAL检索策略示范

- #1 MeSH descriptor Breast Neoplasms explode all trees
- #2 breast near cancer*
- #3 breast near neoplasm*
- #4 breast near carcinoma*
- #5 breast near tumour*
- #6 breast near tumor*
- #7 #1 OR #2 OR #3 OR #4 OR #5 OR #6
- #8 MeSH descriptor Tamoxifen explode all trees
- #9 tamoxifen
- #10 #8 OR #9
- #11 #7 AND #10

"near"运算符默认为在6个字内;

'*'表示阶段符。

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框6.4.f 主题为"它莫西芬治疗乳腺癌"的MEDLINE (Ovid格式)检索策略示范

- randomized controlled trial.pt.
- 2 controlled clinical trial.pt.
- 3 randomized.ab.
- 4 placebo.ab.
- 5 drug therapy.fs.
- 6 randomly.ab.
- 7 trial.ab.
- 8 groups.ab.
- 9 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8
- 10 animals.sh. not (humans.sh. and animals.sh.)
- 11 9 not 10
- 12 exp Breast Neoplasms/
- 13 (breast adj6 cancer\$).mp.
- 14 (breast adj6 neoplasm\$).mp.
- 15 (breast adj6 carcinoma\$).mp.
- 16 (breast adj6 tumour\$).mp.
- 17 (breast adj6 tumor\$).mp.
- 18 12 or 13 or 14 or 15 or 16 or 17
- 19 exp Tamoxifen/
- 20 tamoxifen.mp.
- 21 19 or 20
- 22 11 and 18 and 21
 - 'adj6'运算符表示在6个字内;
 - '\$'表示截断符;

.mp.表示检索标题、原标题、摘要、实义词及主题词。

4. 应用最佳证据



 将获得的真实可靠的并有临床应用价值的最佳证据, 用于指导临床决策。

- 否定经严格评价认为乏效甚至有害的治疗措施。
- 对于尚难定论并有期望的治疗措施,可为进一步研究提供信息。

● 遵循个性化原则

5. 不断提高改进



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通过对患者的实践,总结经验教训,从中获益,促进 学术水平和医疗质量的提高。

三.证据种类



"证"就是对临床研究的文献,应用临床流行病学的原则和方法,经过认真的分析和评价获得的新近的最真实可靠且有临床重要应用价值的研究成果。

1.证据的种类



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1.1 Systematic Review 和 Meta-Analysis

针对某一具体临床问题,全面搜集相关文献,运用统计学的原理和方法,对符合标准的文献进行全新的综合和研究而产生的新文献。

[例] 非小细胞肺癌完全切除术后的放射治疗,存在争议。近年来系统评价得出结论: 术后放射治疗不利于完全切除的早期非小细胞肺癌病人。

Postoperative radiotherapy for non-small cell lung cancer

Sarah Burdett¹, Larysa Rydzewska¹, Jayne Tierney¹, David Fisher², Mahesh KB Parmar², Rodrigo Arriagada³, Jean Pierre Pignon⁴, Cecile Le Pechoux⁵, on behalf of the PORT Meta-analysis Trialists Group¹

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Editorial group: Cochrane Lung Cancer Group.

Publication status and date: New search for studies and content updated

Citation: Burdett S, Rydzewska L, Tierney J, Fisher D, Parmar MKB, Arriagada R, Pignon JP, Le Pechoux C, on behalf

Meta-analysis Trialists Group. Postoperative radiotherapy for non-small cel Issue 10. Art. No.: CD002142. DOI: 10.1002/14651858.CD002142.pub

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Abstract

Background

The role of postoperative radiotherapy (PORT) in the treatment of patients with completely resected non-small cell lung cancer (NSCLC) was not clear. A systematic review and individual participant data meta-analysis was undertaken to evaluate available evidence from randomised controlled trials (RCTs). These results were first published in *Lung Cancer* in 2013.

Jump to.

Objectives

To evaluate the effects of PORT on survival and recurrence in patients with completely resected NSCLC. To investigate whether predefined patient subgroups benefit more or less from PORT.

Search methods

We supplemented MEDLINE and CANCERLIT searches (1965 to 8 July 2016) with information from trial registers, handsearching of relevant meeting proceedings and discussion with trialists and organisations.

Selection criteria

We included trials of surgery versus surgery plus radiotherapy, provided they randomised participants with NSCLC using a method that precluded prior knowledge of treatment assignment.

Data collection and analysis

We carried out a quantitative meta-analysis using updated information from individual participants from all randomised trials. We sought data on all participants from those responsible for the trial. We obtained updated individual participant data (IPD) on survival and date of last follow-up, as well as details on treatment allocation, date of randomisation, age, sex, histological cell type, stage, nodal status and performance status. To avoid potential bias, we requested information on all randomised participants, including those excluded from investigators' original analyses. We conducted all analyses on intention-to-treat on the endpoint of survival.

Main results

We identified 14 trials evaluating surgery versus surgery plus radiotherapy. Individual participant data were available for 11 of these trials, and our analyses are based on 2343 participants (1511 deaths). Results show a significant adverse effect of PORT on survival, with a hazard ratio of 1.18, or an 18% relative increase in risk of death. This is equivalent to an absolute detriment of 5% at two years (95% confidence interval (Cl) 2% to 9%), reducing overall survival from 58% to 53%. Subgroup analyses showed no differences in effects of PORT by any participant subgroup covariate.

We did not undertake analysis of the effects of PORT on quality of life and adverse events. Investigators did not routinely collect quality of life information during these trials, and it was unlikely that any benefit of PORT would offset the observed survival disadvantage. We considered risk of bias in the included trials to be low.

Authors' conclusions

Results from 11 trials and 2343 participants show that PORT is detrimental to those with completely resected non-small cell lung cancer and should not be used in the routine treatment of such patients. Results of ongoing RCTs will clarify the effects of modern radiotherapy in patients with N2 tumours.

检索方法

选择标准

数据搜集与分析

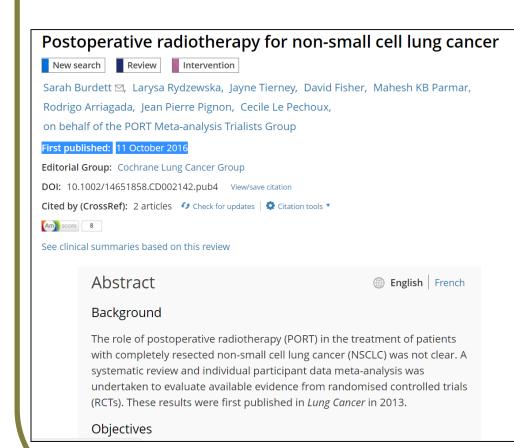
主要结果

作者结论



系统评价的格式







- 摘要: 结构式
- 课题背景
- 研究目的
- 方法
- 结果
- 讨论
- 作者结论
-

1.证据的种类



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1.2 Randomized Controlled Trial, RCT

采用随机分配的方法,将符合要求的研究对象分别分配到试验组与对照组。然后接受相应的人为干预措施,在一致的条件下或相同的环境里,同步进行研究和观察,并采用客观的、公认的效应指标对试验结果进行测量和评价的试验设计。

随机对照试验



· 高血

奥美沙坦酯与氯沙坦钾治疗中国轻、中度 原发性高血压患者 8 周的 疗效与安全性比较

诸骏仁 蔡廼绳 范维琥 朱鼎良 何奔 吴宗贵柯元南 郭静萱 马虹 黄峻 李新立 陈运贞

【摘要】目的 通过与氯沙坦钾比较评价奥美沙坦酯治疗轻、中度原发性高血压患者的疗效和安全性。方法 采用随机、双盲、双模拟、阳性对照、平行分组、多中心临床试验方法。共入选 287 例轻、中度原发性高血压患者,按照 1:1 的比例随机分组,分别接受奥美沙坦酯 20 mg 或氯沙坦钾 50 mg,每天 1 次口服治疗。在用药 4 周后对患者进行血压评价,如果患者舒张压(DBP)仍≥ 90 mm Hg(1 mm Hg = 0.133 kPa),则试验药物剂量加倍,直至 8 周试验结束;治疗 4 周后 DBP < 90 mm Hg的患者则维持原剂量继续治疗至第 8 周。结果 (1)治疗 4 周后,奥美沙坦酯组坐位 DBP 谷值平均下降 11.72 mm Hg,氯沙坦钾组平均下降 9.23 mm Hg,两组间比较 P = 0.004。(2)治疗 8 周后,奥美沙坦酯组坐位 DBP 谷值平均下降 12.94 mm Hg,氯沙坦钾组平均下降 11.01 mm Hg,两组间比较 P = 0.035。(3)治疗 4 周后,奥美沙坦酯组有效数为 81 例(65.3%),氯沙坦钾组有效数为 68 例(52.7%),两组间比较 P = 0.028;治疗 8 周后,两组有效病例数和有效率相当,P > 0.05。(4)治疗 8 周后,24 h 动态血压监测显示,奥美沙坦酯组 DBP和 SBP的个体和总体谷/峰比值均高于氯沙坦钾组、奥美沙坦酯在 24 h 内的作用持续时间比氯沙坦钾组长。(5)奥美沙坦酯组和氯沙坦钾组发生的与试验药物有关的不良事件的发生率分别为 10.5%和 13.9%,P > 0.05。结论 奥美沙坦酯每日口服 20 ~ 40 mg 能够有效、安全地治疗高血压。与氯沙坦钾每日口服 50 ~ 100 mg 相比,奥美沙坦酯的降压效果优于氯沙坦钾。

【关键词】 高血压; 抗高血压药; 治疗结果

1.证据的种类



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1.3 Health Technology Assessment

对卫生技术的技术特性、安全性、有效性(效能、效果和生存质量)、经济学特性(成本效果)和社会的适应性(法律、伦理)进行评价,为决策者提供合理选择卫生技术的证据。

卫生技术评估





\bot				_	-		Ц
	专 栏	专 栏 FEATURES					
	对 MRI 的比吸收率 (SA	R)作出了	限制,3台	合抽检设备的全	表4 莱因产品牌水		
	身 SAR 比标准低 2 个数				評估項目 年龄委人次(次)	教施	
	限值可以达到8T,本评				平检查人次(次) 人均检查时间(分钟)	5867 ± 1075 20.0 ± 4.3	
	有检测项目均满足标准要	求,在用	没备也没不	有电磁安全不良	年实际升机时间 (小时)	1981 ± 96	
	事件报告。	46 2	mr. h 44		年实际可能工作时间	2080	
	表2 某国产品	, 解水ಀ型 N 限值标准:		性 2 抽除3	外地患者检查数 年开机使用率	很少 98.7%	
	有效刺激持续时间 (ms)			28 0.30	年 所	94.0%	
				9.50 20.00	外地患者承担指数	很少	
	梯度磁场变化率(T/s) SAR 限值(W/kg)	210.2	3.2 33	3.5 32.8	表5 菜国产品牌永	·磁型MRI经济性	
	全身	2 (0.054 0.	055 0.064	评估项目	教据	
	亚金亚征拉拉式 基和報干	10 3	3.2 3.	3 3.9	人均收費 (元)	350 ± 60	
	, AL,	20 8	1.0 8.	2 9.6	初次投资(万元) 年新昭	318 ± 47 10%	
	2.3 有效性	. vot. wor a sec		M. TH. Bb. 50° 45.	单位变动成本	291 ± 44	
	从又献分析,低场点 查与 CT、螺旋 CT (MSC				成本回收率(%)	37.9 ± 4.0	
	表明 MRI 检查多数比 C				投資回收期 (年)	3.7 ± 0.5	
	但在候脑外伤检查 CT H				年保本服务量 (人次)	2200 ± 229	
	部检查一致性比 CT 高,				介地患者水包指数	很少	
					2.5 经济性		
	意义。	不具这种特性,表明制定 MRI 诊断的"金标准"具有重要 成本-双盘方析是医院分级标准的必需指标 ¹⁰¹ ,运行					
1	表3 诊断疾	病类型及检	出率(%)	,	成本结构包括人员工资、管理		
	疾病类型	病例数	检出率	其他检出率	折旧费等[24]。某国产品牌水桶		
Ψ-	直肠癌 ^[15] 鼻咽癌 ^[16]	79	72.15 72.2	38.9 (CT)	是进口机价格的一半 ¹⁷⁸ ,人出 收率 37.9%、投资回收期 3.74		-
	并"四极" [17]	36 23	91.3	78.3 (CT)	収年 37.9%、仅页凹収别 3.7° 面同类进口机的投资回收期 3		
	颅脑淋巴瘤 [19]	9	100		要达到 2084 人 左四 头部检引		
	脑白质变[19]	77	98.7		该型机器的经济效益。比同类		
	全体瘤 ^[20] 肝肿瘤 ^[21]	6 78	100	97.06 (US)	2.6 社会性		
	椎管内占位性病变 [23]	22	90.0	31100 (00)	在7家有某国产品牌永磁	型 MRI 的医疗机构(余姚市	
	腰椎间盘突出 ^[23]	40	95.0	92.5 (CT)	人民医院、成都医学院第一阵	J属医院、昆明骨科医院、民	
	颅面骨病交 [24]	57	96	84 (CT) 80.6 (CT)	权县中医院、湖南岳阳广济区	院、河南鹿邑真源医院、绛	
	股骨头缺血性坏死 ^[23] 隐匿性骨折 ^[24]	38 79	100	85.5(MSCT)	县红十字会医院)进行关于 N		
	膝关节应力性骨折 [27]	21	100	38.1 (X线)	容包括对某国产品牌水磁型码		
	所結外伤 ^[28]	40	82.5	92.5 (CT)	可靠性、主观感受、经济性、		
	· 重复肾与重复输尿管司 β □	⁹¹ 5	100	60 (US)	等 7 大类 55 个指标评价,结果	於見图 1。 ###	
	2.4 利用率	Print and and	MIDT MADE	Farlesti de C a rite	创新技术会 厂家组集产金		
		在9家有采国产品牌水磁型 MRI 的医疗机构(1家 三甲医院,7家二甲医院,1家民费医院)进行关于 MRI			福用技术会		
		二甲医院, / 家二甲医院, 1 家民召医院 / 进行大丁 MRI 利用率和经济效益的问卷调查, 结果见表 4 和 5。调查表			但连续印度 主观系令印度		
	明:某国产品牌水磁型				TSHIPS		
	该型设备适合各级别医	该型设备适合各级别医院使用、尤其是二甲医院。外地患			T4444	150 200 250 300	
	者承担指数很低,表明:	者承担指数很低,表明该型设备完全适应于本地卫生资源			图1 医院对企业	及其产品的评价	
					调查的主观结果是某国产	"品牌产品性能稳定,故障率	
	场 MRI 的使用率在 50%	场 MRI 的使用率在 50% 左右 ^{[23} ,而某国产品牌利用率高 低,图像质量良好,操作简单,主观感受满意,后续费用较低。					
	的因素之一是许多疾病。	I用该型机	器诊断。		厂家定期回访、跟踪指导、服	务周到。	
	16 中国医疗设备 2016年	第31卷 04	期 VOL.	31 No.04			

1.证据的种类



29

1.4 Clinical Practice Guideline

针对特定的临床问题,系统地制定出指导性意见,帮助临床医师和病人做出的恰当处理。

临床实践指南



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HEPATOLOGY

AASLD

PRACTICE GUIDELINE

AASLD Guidelines for Treatment of Chronic Hepatitis B

Norah A. Terrault, ¹ Natalie H. Bzowej, ² Kyong-Mi Chang, ³ Jessica P. Hwang, ⁴ Maureen M. Jonas, ⁵ and
M. Hassan Murad⁶

See Editorial on Page 31

Objectives and Guiding Principles

Guiding Principles

This document presents official recommendations of the American Association for the Study of Liver Diseases (AASLD) on the treatment of chronic hepatitis B (CHB) virus (HBV) infection in adults and children. Unlike previous AASLD practice guidelines, this guideline was developed in compliance with the Institute of Medicine standards for trustworthy practice guidelines and uses the Grading of Recommendation Assessment, Development and Evaluation (GRADE) approach. Multiple systematic reviews of the literature were conducted to support the recommendations in this practice guideline. An enhanced understanding of this guideline will be obtained by reading the applicable portions of the systematic reviews.

This guideline focuses on using antiviral therapy in chronic HBV infection and does not address other related and important issues, such as screening, prevention, and surveillance. For broader issues related to diagnosis, surveillance, and prevention as well as treatment in special populations (e.g., liver transplant recipients) that are not addressed by this guideline, the previous AASLD guideline² and recent World Health Organization (WHO) guideline³ are excellent additional resources.

Objectives

Guideline developers from the AASLD formulated a list of discrete questions that physicians are faced with in daily practice. These questions were:

- Should adults with immune active CHB be treated with antiviral therapy to decrease liverrelated complications?
- 2. Should adults with immune-tolerant infection be treated with antiviral therapy to decrease liverrelated complications?
- Should antiviral therapy be discontinued in hepatitis B e antigen (HBeAg)-positive persons who have developed HBeAg seroconversion on therapy?
- 4. Should antiviral therapy be discontinued in persons with HBeAg-negative infection with sustained HBV DNA suppression on therapy?
- In HBV-monoinfected persons, does entecavir therapy, when compared to tenofovir therapy, have a different impact on renal and bone health?
- 6. Is there a benefit to adding a second antiviral agent in persons with persistent low levels of viremia while being treated with either tenofovir or entecavir?
- 7. Should persons with compensated cirrhosis and low levels of viremia be treated with antiviral agents?
- Should pregnant women who are hepatitis B surface antigen (HBsAg) positive with high viral load receive antiviral treatment in the third trimester to prevent perinatal transmission of HBV?
- Should children with HBeAg-positive CHB be treated with antiviral therapy to decrease liverrelated complications?

Target Audience

This guideline is intended primarily for health care professionals caring for patients with CHB. Additionally, this guideline may assist policy makers in optimizing the care of individuals living with CHB.

Abbreviations: AASLD, American Association for the Study of Liver Diseases; ALT, alanine aminotransferase; anti-HBe, antibody to HBeAg; anti-HBs, antibody

38 · 中华肝脏病杂志 2015年 12月第 23卷第 12期 Chin J Hepatol, December 2015, Vol. 23, No. 12

· 指南 ·

慢性乙型肝炎防治指南(2015更新版)

中华医学会肝病学分会 中华医学会感染病学分会

【关键词】 肝炎, 乙型, 慢性; 治疗; 预防; 指南

The guideline of prevention and treatment for chronic hepatitis B: a 2015 update Climese Society of Hepatology, Chinese Medical Association; Chinese Society of Infectious Diseases, Chinese Medical Association

[Key words] Hepatitis B, chronic; Treatment; Prevention; Guideline

Corresponding author: Hou Jinlin, Email: Jihousmu@163.com. Department of Infectious Diseases and Hepatology Unit, Nanfang Hospital, Southern Medical University, Guangzhou 510515, China Co-corresponding author: Wei Lai, Email: weilai@pkaph.edu.cn. Peking University People's Hospital, Peking University Hepatology Institute, Beijing 100044, China

本指南为规范慢性乙型肝炎(CHB)的预防、诊断和抗 病毒治疗而制订,涉及 CHB 其他治疗方法和策略请参阅相 关的指南和共识。

中华医学会肝病学分会和感染病学分会于 2005 年组织 国内有关专家制订了《慢性乙型肝炎防治指菌》(第1 版)。

表1 推荐意见的证据等级和推荐等级

级别	详细说明
证据等级	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
A高质量	进一步研究不大可能改变对该疗效评估结果的信心
B中等质量	进一步研究有可能对该疗效评估结果的信心产生重要影响
C低质量	进一步研究很有可能影响该疗效评估结果,且该评估 结果很可能改变
推荐等级	
1 强推荐	充分考虑到了证据的质量、患者可能的预后情况及治 疗成本而最终得出的推荐意见
2 弱推荐	证据价值参差不齐,推荐意见存在不确定性,或推荐 的治疗意见可能会有较高的成本疗效比等,更倾向于 较低等级的推荐

持续感染引起的慢性肝脏炎症性疾病。可分为 HBeAg 阳性 CHB 和 HBeAg 阴性 CHB。

HBeAg 阳性慢性乙型肝炎 (HBeAg positive CHB):血 清 HBsAg 阳性、HBeAg 阳性、HBV DNA 阳性,ALT 持续 或反复升高,或有肝组织学病变。

HBeAg 阴性慢性乙型肝炎 (HBeAg negative CHB): 血清 HBsAg 阳性,HBeAg 阴性,HBV DNA 阳性,ALT

2019/4/3 复旦大学图书馆文献检索教研室

临床实践指南



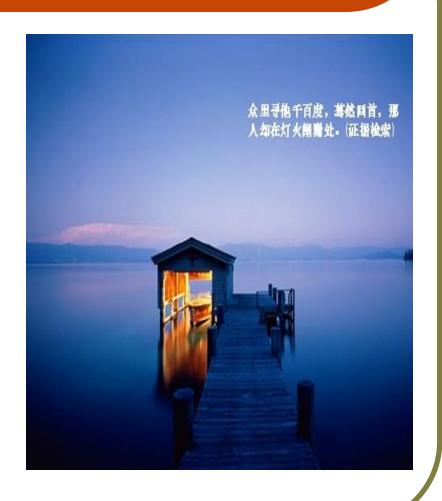


四、证据检索



EBM数据库

- 1. The Cochrane Library
- 2. BMJ Best Practice
- 综合性数据库
 - 3. PubMed
 - 4. 中国生物医学数据库(CBM)



1. The Cochrane Library



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● 是获取循证医学证据的主要来源,由Cochrane协作网创建。http://www.thecochranelibrary.com



CL的主要子库



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(1) Cochrane Reviews & Protocol

收录由Cochrane协作网系统评价组在统一工作手册(The Reviewer's Handbook/指导下完成的系统评价,包括系统评价(Review)和研究方案(Protocol),并随着读者的建议和评论以及新的临床试验的出现不断补充和更新。

CL的主要子库



(2)Trials (Cochrane中心对照试验注册库, CENTRAL)

- 来源于协作网各系统评价小组和其它组织的专业临床试验资料库以及在 MEDLINE上被检索出的随机对照试验 (RCT) 和临床对照试验 (CCT)。
- 还包括了全世界Cochrane协作网成员从有关医学杂志会议论文集和其他来源 中收集到的CCT报告。
- 是获得Cochrane系统评价合格试验的最好来源。
- 普遍认为CENTRAL、MEDLINE和 EMBASE这三个数据库是检索试验报 告最重要的信息源,也是撰写系统评价时必查的数据库。

CL的主要子库

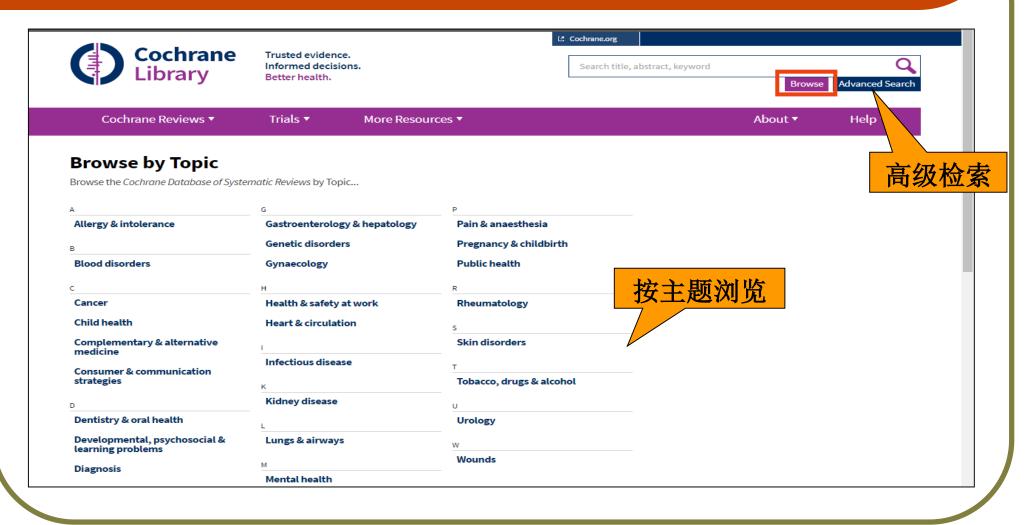


(3) Cochrane Clinical Answers

- 基于高质量的Cochrane系统评价证据。
- 为床旁诊疗提供研究证据和决策支持。
- 每个CCA都包含一个临床问题、一个简短的答案 和来自Cochrane系统评价结论中的数据。

浏览与检索





CL检索规则

1.支持布尔算符,运算符大写,优先运算用括弧

如: liver AND (fibrosis OR cirrhosis)

2.默认空格为AND运算,强迫词组用双引号

如: "Molecular targeted therapy"

3. * 号可用作截词、? 号可用作替代检索。

4.检索词大小写不敏感

5.支持临近检索 (near)

Search: 经皮冠状动脉介入治疗急性心肌梗死



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	1 Library Inform	ed evidence. ned decisions. r health.	Access provide	ed by: Fudan University Engli	ish ▼ Cochrane.org 🗹	≜ Sign In
Co	ochrane Reviews ▼ Trials	Clinical Answers ▼	About ▼	Help ▼		
Pl	dvanced Search ease note that the Advanced Search is	optimised for English search terms terms (MeSH)	. Certain features, su	ch as search operators and I	меSH terms, are only available	e in English.
		rocardial infarction			■ Save search ■ View search The search	? Search h
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TI	ne last 9 months	0 Order by Relevancy ▼				Results per page 25
TI	ne last year ne last 2 years	2 initial medica Xavier Bosch, Jau		-ST segment elevation ac	us coronary intervention as cute coronary syndromes as changed Free access	nd as the
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摘要





全文





Cochrane Database of Systematic Reviews

Adenosine and verapamil for no-reflow during primary percutaneous coronary intervention in people with acute myocardial infarction (Review)

Su Q, Nyi TS, Li L

Su Q, Nyi TS, Li I

Adenosine and verapamil for no-reflow during primary percutaneous coronary intervention in people with acute myocardial infarction. Cochrone Database of Systematic Reviews 2015, Issue 5. Art. No.: CD009503. DOI: 10.1002/14651885.CD009503.nub3.

www.cochranelibrary.com

Adenosine and verapamil for no-reflow during primary percutaneous coronary intervention in people with acute myocardial infarction (Review)

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WILEY

Intervention Review

Adenosine and verapamil for no-reflow during primary percutaneous coronary intervention in people with acute myocardial infarction

Qiang Su1, Tun Swe Nyi1, Lang Li1

Department of Cardiology, The First Affiliated Hospital of Guangxi Medical University, Nanning, China

Contact address: Lang Li, Department of Cardiology, The First Affiliated Hospital of Guangxi Medical University, No. 6, Shuang Yong Load, Nanning, Guangxi, 530021, China. drlilang@163.com.

Editorial group: Cochrane Heart Group.

Publication status and date: New search for studies and content updated (conclusions changed), published in Issue 5, 2015.

Citation: Su Q, Nyi TS, Li L. Adenosine and verapamil for no-reflow during primary percutaneous coronary intervention in people with acute myocardial infarction. Cochrane Database of Systematic Reviews 2015, Issue 5. Art. No.: CD009503. DOI: 10.1002/14651858.CD009503.pub3.

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ABSTRACT

Background

Primary percutaneous coronary intervention (PPCI) is the preferred treatment for ST-segment elevation myocardial infarction. Although coronary flow is restored after PPCI, impaired myocardial perfusion (known as no-reflow) related to poor clinical outcomes is frequently observed. To overcome this phenomenon, drugs, such as atorvastatin, abciximab and others, have been tried as adjunctive treatment to PPCI. Among these drugs, verapamil and adenosine are among the most promising. No other systematic reviews have examined use of these two drugs in people with acute myocardial infarction (AMI) undergoing PPCI. This is an update of the version previously published (2013, Issue 6), for which the people of interest in the review were those treated with PPCI - not those given fibrinolytic therapy.

Objectives

To study the impact of adenosine and verapamil on no-reflow during PPCI in people with AMI.

Search methods

We updated searches of the following databases in June 2014 without language restriction: the Cochrane Central Register of Controlled Trials (CENTRAL), MEDLINE, EMBASE, Web of Science and BIOSIS, China National Knowledge Infrastructure and clinical Trials registers (ClinicalTrials.gov, Current Controlled Trials, Australian and New Zealand Clinical Trials Registry, the World Health Organization (WHO) International Clinical Trials Registry Platform). We also handsearched The American Journal of Cardiology.

Selection criteria

We selected randomised controlled trials (RCTs) in which adenosine or verapamil was the primary intervention. Participants were individuals diagnosed with AMI who were undergoing PPCI.

Data collection and analysis

Two review authors collected studies and extracted data. When necessary, we contacted trial authors to obtain relevant information. We calculated risk ratios (RRs), P values and 95% confidence intervals (CIs) of dichotomous data.

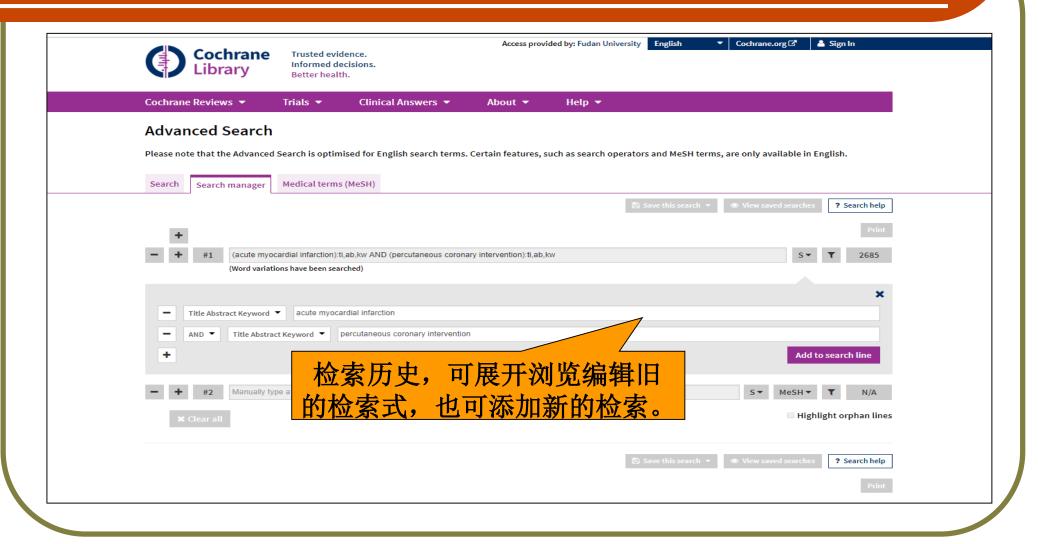
Adenosine and verapamil for no-reflow during primary percutaneous coronary intervention in people with acute myocardial infarction (Review)

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Search Manager: 检索管理器

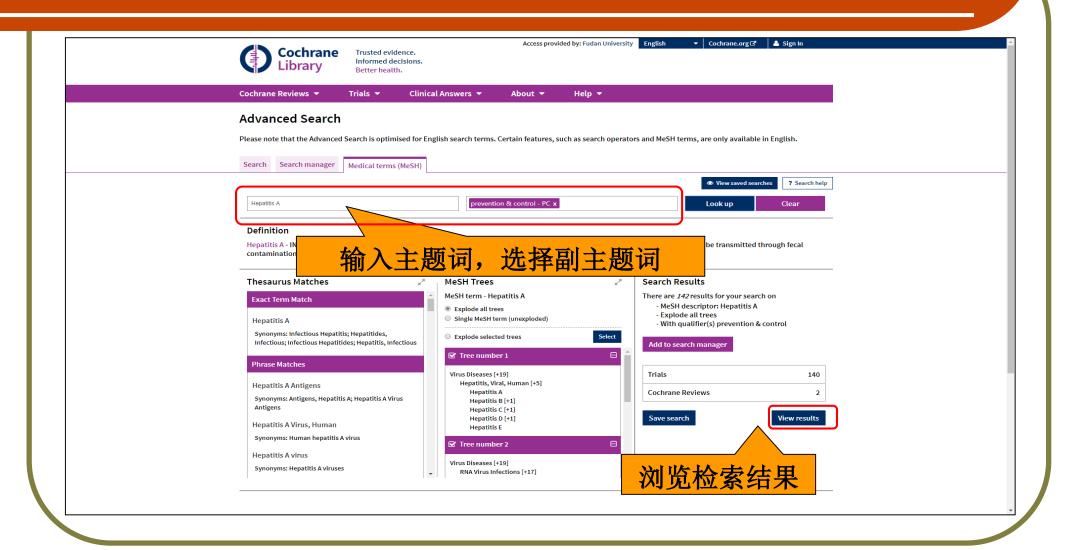


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Medical Terms: 甲型肝炎的预防控制





检索结果 (Trials)



Synonyms: Infectious Hepatitis; Hepatitis, Infecti Hepatitides, Infectious; Infectious Hepatitides	ious;	Explod	de selected trees		Select	Add to search man	ager	
Phrase Matches		☑ Tree	number 1		e ê			
Hepatitis A Antigens Synonyms: Antigens, Hepatitis A; Hepatitis A Viru Antigens Hepatitis A Virus, Human Synonyms: Human hepatitis A virus Hepatitis A virus Synonyms: Hepatitis A viruses	is	Hepa H H H H W Tree	seases [+19] atitis, Viral, Human [+5] depatitis A depatitis B [+1] depatitis C [+1] depatitis D [+1] depatitis E enumber 2 seases [+19] Virus Infections [+17]		=	Cochrane Reviews Save search	v	140 2 /iew results
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Year 3 Year first published 0 2018 0 2017 2 2016 7 2015 4 2014 7 Custom Range:	Cochrane Issue 9 of Select Order by	- PC]' c Central Reg 12, Septembe all (140) Relevancy Immuno A vaccine BR Holzer, Vaccine, 1 PubMed Immuno double-k A vaccine	gister of Controlled Trials er 2018 Export selected citation(s) In a genicity and adverse e: a randomized control of C Hatz, D Schmidt-Sissolak 1996, 14(10), 982-986 a tembase In genicity and safety of blind, immunogenicitie: a double-blind, ran	effects of rolled tri , R Glück, E dded to C f three co y and sa domized	of inactivated ial 3 Althaus, M Egge CENTRAL: 31 Ja onsecutive lo ifety of three d and control	l virosome versus alu er nuary 1998 1998 Issue ts on an inactivated consecutive lots on a led trial in children	Results p m-adsorbed hepat 1 hepatitis A vaccine	er page 25 V titis
Year Year first published 2018	control Cochrane Issue 9 of Select Order by	- PC]' c Central Reg 12, Septembe all (140) Relevancy Immuno A vaccine BR Holzer, Vaccine, 1 PubMed Immuno double-b A vaccine WP Jiang, Y	gister of Controlled Trials er 2018 Export selected citation(s) regenicity and adverse e: a randomized contic C Hatz, D Schmidt-Sissolak 1996, 14(10), 982-986 a Embase regenicity and safety of blind, immunogenicit	effects c rolled tri , R Glück, E dded to C f three cc y and sa domized	of inactivated ial 3 Althaus, M Egge CENTRAL: 31 Ja onsecutive lo fety of three d and control Wang, Y Liu, WD Y	l virosome versus alu er inuary 1998 1998 Issue ets on an inactivated consecutive lots on a led trial in children	Results p m-adsorbed hepat : 1 hepatitis A vaccine inactivated hepat	er page 25 ▼ titis :: a iitis

2. BMJ Best Practice



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 Best Practice整合了BMJ Clinical Evidence (临床证据)中的 治疗研究证据,增添了由全球知名学者和临床专家执笔撰写的, 以个体疾病为单位,涵盖基础、预防、诊断、治疗和随访等各个 关键环节的内容(包括临床常见疾病和非常见病),尤其像鉴别 诊断,实验室检查,诊断和治疗的方法和步骤等。

2. BMJ Best Practice



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Best Practice还提供数干项的国际治疗指南和诊断标准的全文内容,并可定制中文的临床指南和标准;嵌入了国际权威的药物处方数据库,提供最新的药物副反应和多种药物相互作用的最新证据;以及收录大量的病症彩色图像和证据表格等资料。

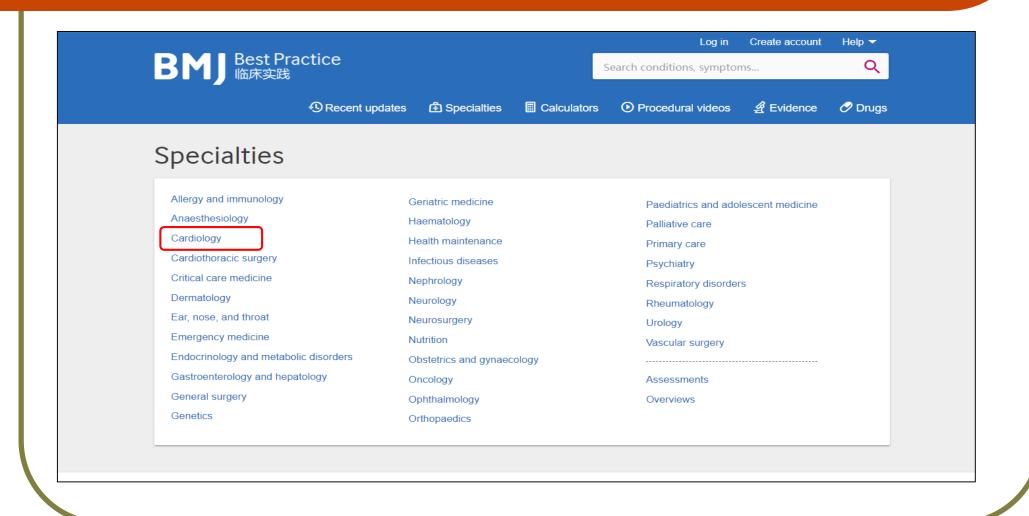
Best Practice主页





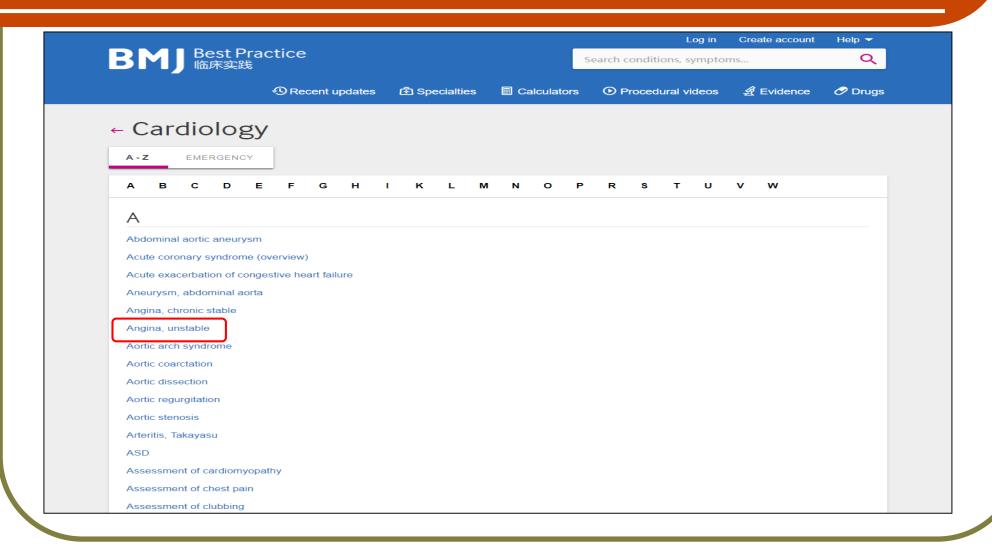
Specialties专业





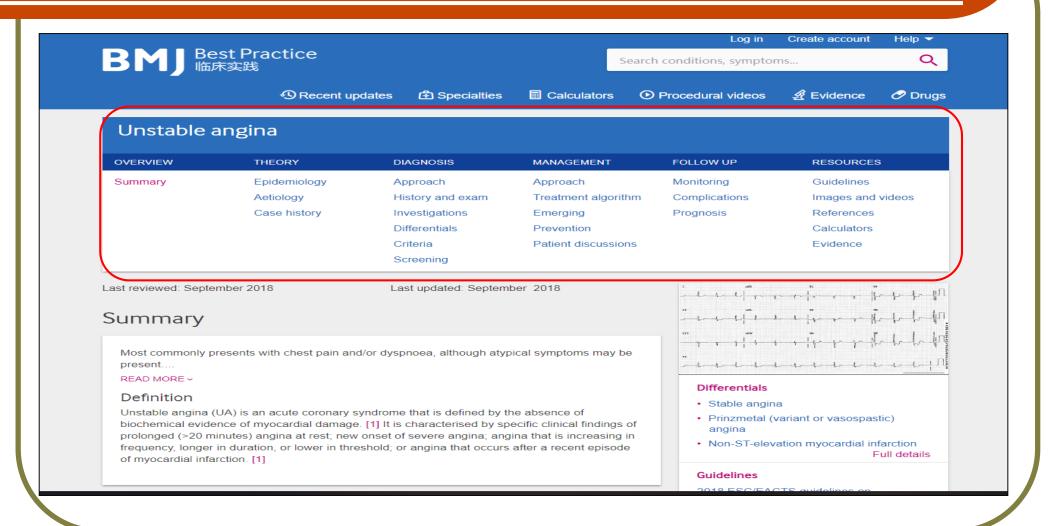
Specialties专业





对每一种疾病都提供了标准结构内容





3. PubMed



方法一: 字段限定

例: iron deficiency anemia AND systematic[sb]



方法二: Clinical Queries

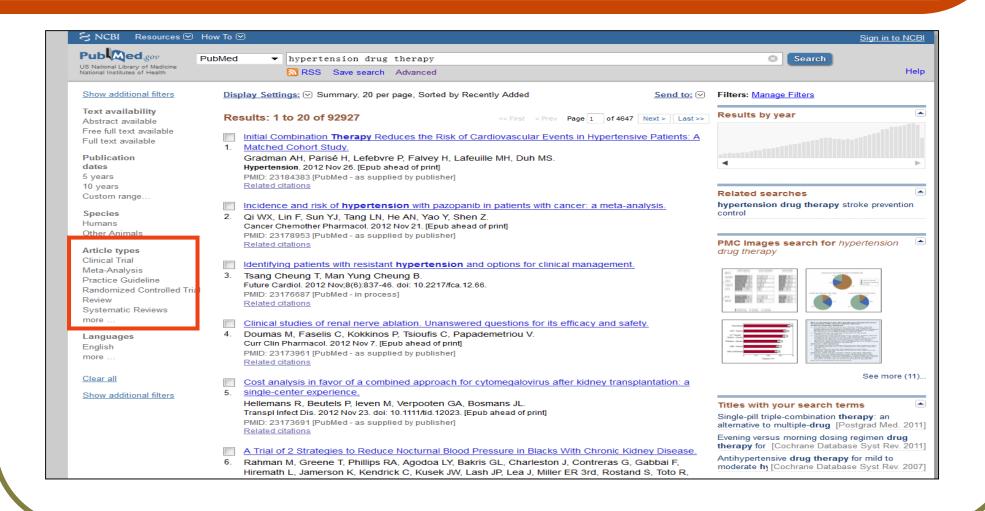


S NCBI Resources ☑ How To ☑		My NCBI Sign In							
PubMed Clinical Queries									
Search iron deficiency anemia Search Clear									
Results of searches on this page are limited to specific clinical research areas. For comprehensive searches, use PubMed directly.									
Clinical Study Categories	Systematic Reviews	Medical Genetics							
Category: Therapy		Topic: All							
Scope: Broad									
Results: 5 of 5013	Results: 5 of 146	Results: 5 of 652							
Phase III, Randomized Study of the Effects of Parenteral Iron, Oral Iron, or No Iron Supplementation on the	Positive predictive values of ≥5% in primary care for cancer: systematic review.	Benefits and risks of iron supplementation in anemic neonatal pigs.							
Erythropoietic Response to Darbepoetin [J Clin Oncol. 2010] Relationship between iron deficiency and anemia in children	[Br J Gen Pract. 2010] Screening for Iron Deficiency Anemia in Childhood and	[Am J Pathol. 2010] Altered heme catabolism by heme oxygenase-1 caused by							
younger than 4 years. [J Pediatr (Rio J). 2010]	Pregnancy: Update of the 1996 U.S. Preventive Task Force Review [Internet] [2006]	mutations in human NADPH cytochrome P450 reductase. [Biochem Biophys Res Commun. 2010]							
Management of anemia and iron deficiency in heart failure.	Maternal iron-folic acid supplementation programs: evidence of impact and implementation.	A novel TMPRSS6 mutation that prevents protease auto- activation causes IRIDA.							
[Curr Treat Options Cardiovasc Med. 2010]	[Food Nutr Bull. 2010]	[Biochem J. 2010]							
Blue rubber bleb nevus syndrome causing refractory anaemia.	Adjusting plasma ferritin concentrations to remove the effects of subclinical inflammation in the assessment of iron	Increased susceptibility to iron deficiency of Tmprss6- haploinsufficient mice.							
[J Assoc Physicians India. 2010]	deficiency: a meta-analysis. [Am J Clin Nutr. 2010]	[Blood. 2010]							
Complementary Foods Fortified with Micronutrients Prevent Iron Deficiency and Anemia in Vietnamese infants.	The effects of changing vitamin D levels on anemia in chronic kidney disease patients: a retrospective cohort	Two to tango: regulation of Mammalian iron metabolism.							
[J Nutr. 2010]	review. [Clin Nephrol. 2010]	[Cell. 2010]							
See all (5013)	See all (146)	See all (652)							
<u>Filter</u> citations to a specific clinical study category and scope. These search filters were developed by <u>Haynes RB et al.</u>	<u>Filter</u> citations for systematic reviews, meta-analyses, reviews of clinical trials, evidence-based medicine, consensus development conferences, and guidelines. See related sources.	Filter citations to topics in medical genetics.							

方法三: Article types



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随机对照试验的高敏感检索策略 (MEDLINE)



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```
randomized controlled trial [pt]
#1
    controlled clinical trial [pt]
#2
    randomized [tiab]
#3
    placebo [tiab]
#4
    drug therapy [sh]
#5
    randomly [tiab]
#6
    trial [tiab]
#7
#8
    groups [tiab]
    #1 OR #2 OR #3 OR #4 OR #5 OR #6 OR #7 OR #8
#9
     animals [mh] NOT humans [mh]
     #9 NOT #10
```

4.中国生物医学文献数据库(CBM)



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在CBM中检索有关"系统评价"的检索策略可写成:

- #1 系统评价 or 系统综述 or 系统性评价 or 系统性综述 or 系统评述 or 系统性评述
- #2 英文题目: systematic and review
- #3 循证医学 or 证据医学 or 实证医学
- #4 meta 分析 or 荟萃分析 or 汇总分析 or 集成分析
- #5 #1 or #2 or #3 or #4

参考书目



- 王家良,循证医学(第3版).人民卫生出版社,2016
- 李幼平, 循证医学(第2版).高等教育出版社, 2009
- 邓可刚等,循证医学证据的检索与利用(第2版)。
 人民卫生出版社,2008
- 丁香园——循证医学与临床应用讨论版 http://www.dxy.cn/bbs/index.html

在EBM实践中构建临床问题,一般遵循以下哪个原则?



A, POCI

B、PICO √

C、IOPC

D、COPI

下列哪个证据的级别最高(可靠性最强)?



- A、系统评价 ▼
- B、随机对照试验
- C、病例对照
- D、动物研究

在PubMed中查找系统评价,可使用下列哪些方法?



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- A、字段限定 ✓
- B、Clinical Queries √
- C、Article Types √
- **D**、Limits

以下哪些是循证医学数据库?



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A The Cochrane Library √

B、MEDLINE

C \ BMJ Best Practice ✓

D. Web of Science

若想撰写一篇系统评价,必须检索的数据库是:



A. The Cochrane Library

B、MEDLINE √

C BMJ Best Practice

D、CENTRAL ✓

E、EMBase ✓

谢谢大家,欢迎提问!