



Your instant second opinion

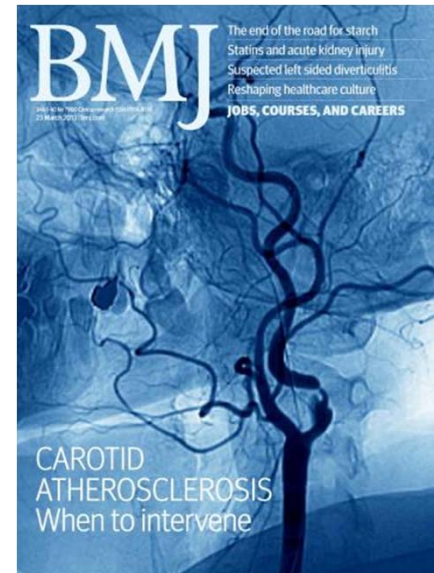
BMJ最佳临床实践

- 循证医学临床决策支持工具

<http://bestpractice.bmj.com>

BMJ简介

- 成立于 1840 年，有 170 多年的历史
- 直属于英国医学会
- 以其旗舰期刊《英国医学杂志》缩写命名
- 致力于促进世界医学发展和患者健康改善
- 影响全球160多个国家和地区的读者和用户
- 总部设于伦敦，在美国、印度、巴西、中国有分部



医生

life long learning

- 需求：实时、快速获得最新临床新知识；快速解决遇到的临床诊疗问题
-

- 途径：

教科书、纸本期刊

电子资源-Pubmed.....

互联网-丁香园、google、baidu.....

请教上级医生或老师

- 困难：

书本知识迅速过时

纸本期刊查询不便

电子资源文献浩如烟海

时间有限

经验有时具有局限性



5/14/2015

搜索工具/文献数据库的效率

15个城市，121家三甲医院，7321份问卷

工具	应用比例	解决时长
Google	49%	31分钟
百度	47%	27分钟
丁香园	46%	??
清华同方	33%	33分钟
万方数据	31%	37分钟
Pubmed	21%	46分钟

2008-2009，邓白氏调查

2581名中国临床医生调查：

项目	时间比例	全文效力（5分制）	结论
诊疗	79.2%	1.72分	无效
继续教育	11.1%	2.88分	有限
科研	8.6%	4.69分	推荐
其他	1.1%	不详	不详

有**73.7%**的医生，即使完全读懂全文内容（中文/英文），仍对其临床诊疗无任何帮助(5分制选0分和1分)

-2009-2010，邓白氏调查机构

Arginase 1 mediates increased blood pressure contributes to vascular endothelial deoxycorticosterone acetate-salt hypertension

Haroldo A. Toque^{1*}, Kenia P. Nunes², Modesto Rojas³, Anil Bhai Maritza J. Romero^{1,3}, R. Clinton Webb^{1,2}, Ruth B. Caldwell³ and

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Enhanced arginase (ARG) activity has been shown to impair endothelial function and contribute to endothelial dysfunction in hypertension and endothelial dysfunction. We investigated the role of ARG in hypertension and endothelial dysfunction in a murine model of hypertension. Hypertension was induced in mice by 2 weeks of DOCA-salt treatment for 6-weeks. (C After 2 weeks of DOCA-salt treatment, ~15 mmHg in all mouse genotypes. SBP levels by 6 weeks (109 ± 4 vs. 101 ± 3 mmHg) in mice increased vascular ARG activity (aortic and protein levels of ARG1 (aorta: 1.49-fold increased in WT-DOCA MA (by WT Sham tissues. Maximum endothelial relaxation was significantly reduced in DOCA-salt WT ARG1^{-/-} and ARG2^{-/-} mice vs. their responses to phenylephrine in aorta or aorta or MA from WT-DOCA mice with i mediated vasorelaxation. DOCA-salt-int 2.1-fold) in WT was prevented in ARG1^{-/-} and may represent a novel target for an

Keywords: arginase, endothelial dysfunction, DOC

Yancy, CW et al.
2013 ACCF/AHA Heart Failure Guideline

2013 ACCF/AHA Guideline for the Management of Heart Failure

A Report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines

Developed in Collaboration With the Heart Rhythm Society

Endorsed by the American Association of Cardiovascular and Pulmonary Rehabilitation

WRITING COMMITTEE MEMBERS*

TnQTable1

ACCF/AHA TASK FORCE MEMBERS

Jeffrey L. Anderson, MD, FACC, FAHA, *Chair*
Alice K. Jacobs, MD, FACC, FAHA, *Immediate Past Chair*†‡
Jonathan L. Halperin, MD, FACC, FAHA, *Chair-Elect*

TnQTable2*Writing committee members are required to recuse themselves from voting on sections to which their specific relationships with industry and other entities may apply; see Appendix 1 for recusal information.

†ACCF/AHA representative.

‡ACCF/AHA Task Force on Practice Guidelines liaison.

§American College of Physicians representative.

|| American College of Chest Physicians representative.

¶International Society for Heart and Lung Transplantation representative.

#ACCF/AHA Task Force on Performance Measures liaison.

**American Academy of Family Physicians representative.

††Heart Rhythm Society representative.

†††Former Task Force member during this writing effort.

This document was approved by the American College of Cardiology Foundation Board of Trustees and the American Heart Association Science Advisory and Coordinating Committee in May 2013.

The American College of Cardiology Foundation requests that this document be cited as follows: Yancy CW, Jessup M, Bozkurt B, Butler J, Casey DE Jr, Drazner MH, Fonarow GC, Geraci SA, Horwich T, Januzzi JL, Johnson MR, Kasper EK, Levy WC, Masoudi FA, McBride PE, McMurray JJV, Mitchell JE, Peterson PN, Riegel B, Sam F, Stevenson LW, Tang WHW, Tsai EJ, Wilkoff BL. 2013 ACCF/AHA guideline for the management of heart failure: a report of the American College of Cardiology Foundation/American Heart Association Task Force on Practice Guidelines. *J Am Coll Cardiol* 2013 June 5 [E-pub ahead of print].

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Author's bias

Non-publication of large randomized clinical trials: cross sectional analysis

--BMJ 2013; 347

Results

Of 585 registered trials, 171 (29%) remained unpublished. These 171 unpublished trials had an estimated total enrollment of 299 763 study participants. The median time between study completion and the final literature search was 60 months for unpublished trials. Non-publication was more common among trials that received industry funding (150/468, 32%) than those that did not (21/117, 18%), $P=0.003$. Of the 171 unpublished trials, 133 (78%) had no results available in ClinicalTrials.gov.

5/14/2015

美国Massey 大学的Mark Stevenson教授告诫我们：



- 全世界每天发表**46篇RCT**文献，每天进入**Medline**的医学文献就有**2000篇**，每天产生的生物医学文献高达**8000篇**；
- 发表的文献中并非都有用，**只有不到1%的文献是缜密的临床相关性强的**。发表在各种医学杂志上的大多数文献或者过于粗制滥造，或者与临床应用毫不相关；
- **互联网**给了我们太多的需要不断更新的信息。但除此以外，高质量的信息却往往不易找到。

•-[resource: Mark Stevenson. Critical appraisal of the literature. Epi Centre, IVABS, Massey University, Palmerston North
M.Stevenson@massey.ac.nzepicentre.massey.ac.nz/Portals/0/.../227.../Stevenson_critical_appraisal.pdf]

What doctors want

Dr. Malcolm Daniel Consultant in Anaesthesia and Intensive Care at Glasgow Royal Infirmary (GR



- 无需通读全文/not to have to wade through papers
- 无需亲自检索 Medline 数据库, 让我信任的人去检索/not to have to search through Medline- get & trust someone else to do that for me
- 获得具有证据级别的引文/to have an index of the strength of evidence
- 得到简短的问题答案/to have a one word (or brief) answer
- 找到已有答案的问题/to see questions that already have answers
- 50秒就得到所需的医学知识/50 seconds to medical knowledge

什么是循证医学

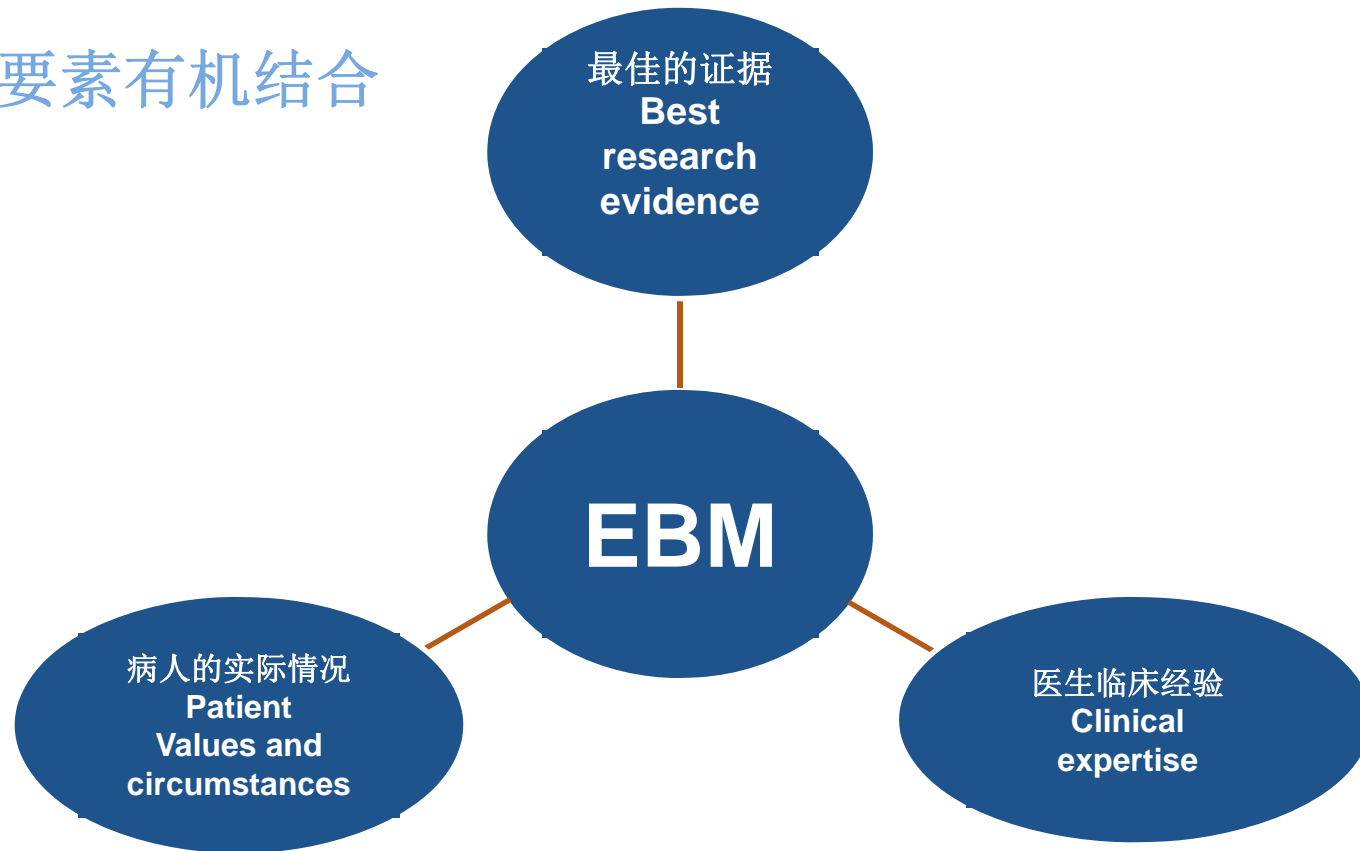
“循证医学是慎重、准确和明智地应用当前最佳的研究证据来确定患者的治疗措施。

--Prof. Sackett DL , 1996年发表于BMJ

“Evidence based medicine is the “conscientious, explicit and judicious use of current best evidence in making decisions about individual patients”.



EBM三要素有机结合



BMJ与循证医学发展

2009, BMJ推出  BMJ Best Practice

1999, BMJ推出  BMJ Clinical Evidence

1996, David Sackett在BMJ上发表EBM定义

1994, David Sackett主办由BMJ和美国内科医师学会联合出版的EBM及Clinical Evidence

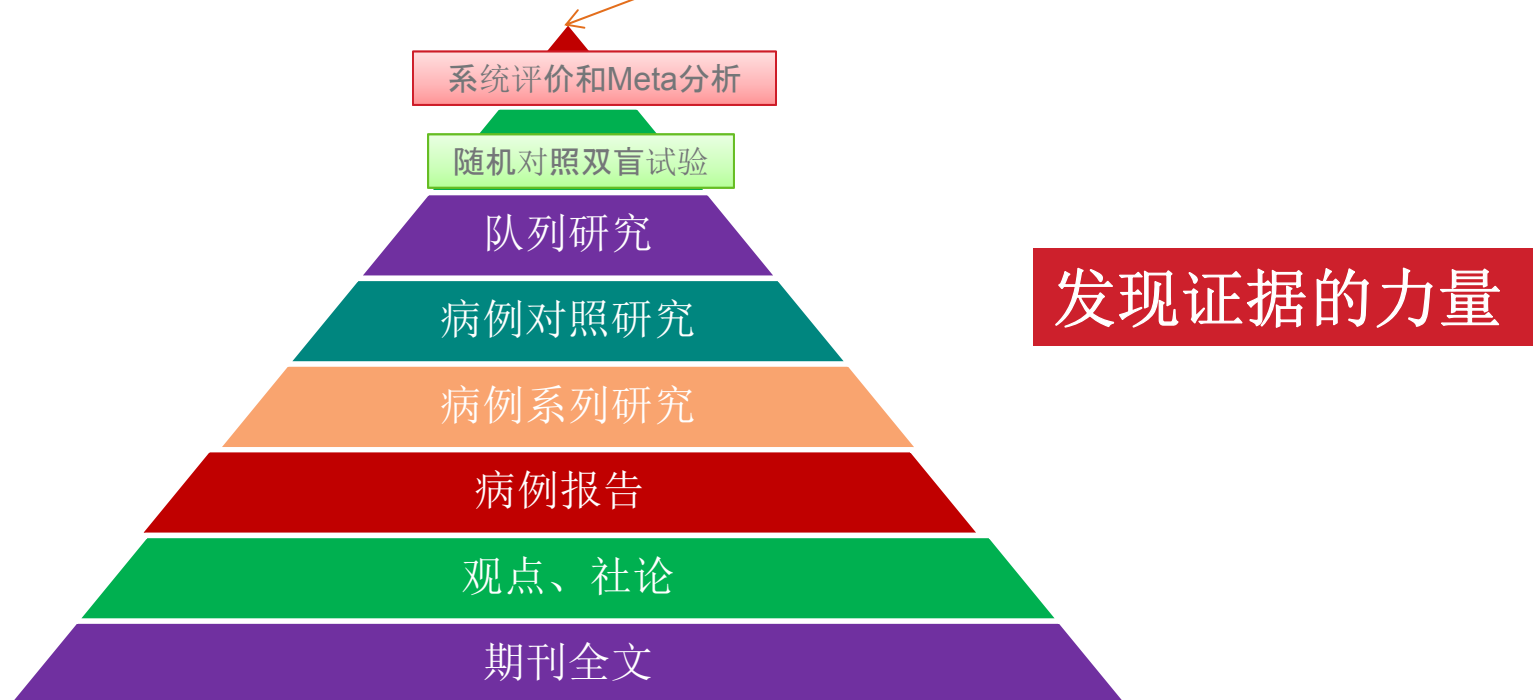
1992, 加拿大麦克玛斯特大学的David Sackett及同事提出EBM概念

1992, 英国牛津成立了英国Cochrane中心

1987, Archie Cochrane根据产科RCT结果, 进行系统评价研究,揭示了循证医学的实质



- 循证医学**临床决策支持工具**，是医生可靠的“**Second Opinion**”
- 将最新的研究成果，指南，专家意见整合成在一起，通过快速、简单的途径为临床诊疗决策提供及时可靠的信息。
- 目标人群：医学生、住院医师、全科医师、专科医师（学习非本专业内容）



Grading of Recommendations Assessment, Development and Evaluation (GRADE)

Code	Quality of Evidence	Definition
A	High	<p>Further research is very unlikely to change our confidence in the estimate of effect.</p> <ul style="list-style-type: none">▶ Several high-quality studies with consistent results▶ In special cases: one large, high-quality multi-centre trial
B	Moderate	<p>Further research is likely to have an important impact on our confidence in the estimate of effect and may change the estimate.</p> <ul style="list-style-type: none">▶ One high-quality study▶ Several studies with some limitations
C	Low	<p>Further research is very likely to have an important impact on our confidence in the estimate of effect and is likely to change the estimate.</p> <ul style="list-style-type: none">▶ One or more studies with severe limitations
D	Very Low	<p>Any estimate of effect is very uncertain.</p> <ul style="list-style-type: none">▶ Expert opinion▶ No direct research evidence▶ One or more studies with very severe limitations

Best Practice涵盖内容



BMJ Best Practice特点

权威

- 全新的**临床诊疗（辅助）系统**
- 全球知名临床专家执笔撰写
- 提供国际权威指南和定制国内标准和指南

高效

- 直达所需内容，免去查找过程
- 与药物数据库系统Martindale实时对接
- 每月更新，每年重审

实用

- 涵盖超过10000种诊断方法，3000项诊断性检测和4000多篇诊断和治疗指南
- 包括基础，预防，诊断，治疗和随访等各个关键环节的内容
- 整合了BMJ **Clinical Evidence**

Best Practice主要提供两种标准结构界面

- 疾病诊治标准界面 (Condition Monographs)

“疾病”入手

Essential hypertension

最后更新于: Mar 06, 2014

精粹	基础	预防	诊断	治疗	随访	文献资料
总结 概览	定义 流行病学 病原学 病理生理	一级预防 筛检 二级预防	病史与检查 实验室检查 鉴别诊断 诊断步骤 诊断标准 诊断指南 病史	具体方法 治疗步骤 新疗法 治疗指南 证据	推荐 并发症 预后	参考文献 网站资源 患者教育 致谢 Related BMJ content

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Best Practice主要提供两种标准结构界面

- 症状分析 (Assessment Monographs)
“症状”入手

Assessment of balance disorders

最后更新于: Apr 26, 2013

概览	急诊	诊断	文献资料	
总结 病原学	应急考虑	诊断步骤 鉴别诊断 诊断指南	参考文献 患者教育 致谢 Related BMJ content	

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Best Practice实例演示—从疾病入手

临床问题:

- A 56 year old man with diabetes is currently taking lisinopril to control his essential hypertension. Today at follow-up, his blood pressure is 150/95, not at goal. How should his therapy be modified?

56岁男性糖尿病患者，服用赖诺普利控制原发性高血压。今天血压测试结果为150/95**，如何调整其治疗？**

传统模式

- 血压未达标
- 更换药物或增加药物
- 观察
- 血压未达标
- 更换药物或增加药物
-

循证模式

- 确认临床问题
 - Patient group:
 - 合并有糖尿病的高血压病人
 - intervention:
 - 现有最佳治疗方案
 - outcome
 - 改善病人预后(心功能、肾功能、中风)
- 寻找最佳证据
- 治疗方案、随访

http://bestpractice.bmj.com

BMJ Clinical Evidence 患者教育 BMJ Portfolio Help

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My BMJ Best Practice

反馈

BMJ Best Practice

Your instant second opinion

搜索题名 按疾病

1. 输入检索词: Hypertension

hypertension

- Hypertension (Assessment of)
- Hypertension complicating pregnancy
- Hypertension in pregnancy
- Hypertension, essential
- Essential hypertension
- Gestational hypertension
- Idiopathic hypertension
- Idiopathic intracranial hypertension

What's new or updated?

Aplastic anaemia	Bartonella inf
Cerumen impaction	Discoid lupus
HELLP syndrome	IgA nephropa

View latest 50 updated topics »

ent and diagnosis
pressure

10 today



Best Practice实例演示

检索结果分类排列

全部结果 [3146] 疾病 [40] 诊断 [697] 治疗 [943] 证据 [163] 药物数据库 [0] 指南 [46]

结果 1 到 50 的 3146 [保存此搜索](#)

疾病	<input type="checkbox"/> Essential hypertension 精粹 基础 预防 诊断 <u>治疗</u> 随访 文献资料
疾病	<input type="checkbox"/> Hypertensive emergencies 精粹 基础 预防 诊断 治疗 随访 文献资料
疾病	<input type="checkbox"/> Idiopathic pulmonary arterial hypertension 精粹 基础 预防 诊断 治疗 随访 文献资料
症状分析	<input type="checkbox"/> Assessment of hypertension 概览 急诊 诊断 文献资料

2. 查看疾病“原发性高血压”-“治疗”

Essential hypertension			Patient group	最后更新于: Mar 06, 2014	
精粹 总结 概览	基础 定义 流行病学 病理学 病理生理	预防 一级预防 筛查 二级预防	no comorbidity (other than osteoporosis): non-pregnant	随访 推荐 并发症 预后	文献资料 参考文献 网站资源 患者教育 致谢 Related BMJ content
Treatment options			concomitant CAD without CHF: non-pregnant	至 BMJ Portfolio 添加为书签 Notes Tools	
Consult your local pharmaceutical database for comprehensive information on drug interactions, and alternative dosing.			concomitant CHF with ejection fraction less than 55%: non-pregnant	3.治疗具体方法: 确认患者群	
Ongoing			concomitant LVH without CAD: non-pregnant	受体 blocker monotherapy	
Patient group		Treatment line	concomitant diabetes or chronic renal disease without cardiovascular disease: non-pregnant	血管紧张素转化酶抑制剂+改善生活方式	
concomitant diabetes or chronic renal disease without cardiovascular disease: non-pregnant		1st	concomitant atrial fibrillation without other comorbidity: non-pregnant	therapy	
stage 1 HTN (BP 140 to 159/90 to 99 mmHg)		plus 2nd	concomitant benign prostatic hypertrophy without other comorbidity		
糖尿病或慢性肾病的患者: BP140-159/90-99 mmHg)		plus 2nd	concomitant Raynaud's disease, PVD, coronary, or spasm without other comorbidity: non-pregnant		

伴有糖尿病或慢性肾病的患者:
高血压1级 (BP140-159/90-99 mmHg)

concomitant diabetes or
chronic renal disease
without cardiovascular
disease: non-pregnant

- stage 1 HTN (BP 140 to 159/90 to 99 mmHg)

1st

✓ **ACE inhibitor/angiotensin-II receptor blocker monotherapy**

→ Goal BP is less than 130/80 mmHg.

→ The lowest dose should be titrated upwards until a therapeutic effect is achieved or an adverse effect limits further titration.

Primary options

5.选择药物

benazepril: 10-40 mg orally once daily

OR

captopril: 12.5 to 25 mg orally two to three times daily initially, maximum 150 mg/day

OR

enalapril: 5-40 mg orally given once daily or in 2 divided doses

OR

fosinopril: 10-40 mg orally given once daily or in 2 divided doses, maximum 80 mg/day

OR

lisinopril: 10-40 mg orally once daily, maximum 80 mg/day

OR

moexipril: 7.5 to 30 mg orally once daily

Martindale: The Complete Drug Reference

SEARCH

[Home](#) > [Martindale: The Complete Drug Reference](#) > [Monographs](#)

[Molecular Drugs](#) > [Drug](#)

[◀ Previous page](#)

[Next page ▶](#)

6.进入药典查看更多药物作用信息

Benazepril Hydrochloride

Sub-sections

- [▢ Drug Nomenclature](#)
- [▢ Adverse Effects, Treatment, and Precautions](#)
- [▢ Interactions](#)
- [▢ Pharmacokinetics](#)
- [+ Uses and Administration](#)
- [+ Preparations](#)

Drug Nomenclature

Date of monograph revision: 25-Feb-1997; 14-Jul-1998; 10-Jan-2000; 30-Oct-2001; 19-Jul-2002; 13-Jul-2006; 08-Sep-2008; (last modified: 31-Oct-2009)

Essential hypertension

最后更新于: Mar 06, 2014

精粹	基础	预防	诊断	治疗	随访	文献资料
总结 概览	定义 流行病学 病原学 病理生理	一级预防 筛查 二级预防	病史与检查 实验室检查 鉴别诊断 诊断步骤 诊断标准 诊断指南 病史	具体方法 治疗步骤 新疗法 治疗指南 证据	推荐 并发症 预后	参考文献 网站资源 患者教育 致谢 Related BMJ content

病史&检查

History & exam

Key factors

- presence of risk factors
- BP >140/90 mmHg
- retinopathy

Other diagnostic factors

- headache
- visual changes
- dyspnoea
- chest pain
- sensory or motor deficit

History & exam details

实验室检查

Diagnostic tests

1st tests to order

- ECG
- fasting metabolic panel with estimated GFR
- fasting lipid panel
- Hb
- urinalysis

Tests to consider

- echocardiogram
- carotid Dopplers
- plasma renin activity (PRA)
- plasma aldosterone
- renal duplex ultrasound/MRA renal arteries
- 24-hour urine phaeochromocytoma screen
- 24-hour urine free cortisol
- TSH
- home and ambulatory BP monitor

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添加为书签

Notes

Tools

Treatment details

Ongoing

no comorbidity (other than osteoporosis): non-pregnant

- **stage 1 HTN (BP 140 to 159/90 to 99 mmHg)**
 - diuretic monotherapy
 - lifestyle modification
 - ACE inhibitor/angiotensin-II receptor blocker monotherapy
 - lifestyle modification
 - beta-blocker monotherapy
 - lifestyle modification
 - dihydropyridine CCB monotherapy
 - lifestyle modification
- **stage 1 not at goal with monotherapy or stage 2 (BP ≥160/100 mmHg)**
 - thiazide + ACE inhibitor/angiotensin-II

治疗具体方法

Essential hypertension

最后更新于： Mar 06, 2014

精粹	基础	预防	诊断	治疗	随访	文献资料
总结 概览	定义 <u>流行病学</u> 病原学 病理生理	一级预防 筛检 二级预防	病史与检查 实验室检查 鉴别诊断 诊断步骤 诊断标准 诊断指南 病史	具体方法 治疗步骤 新疗法 治疗指南 证据	推荐 并发症 预后	参考文献 网站资源 患者教育 致谢 Related BMJ content

流行病学

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Epidemiology

Worldwide, it is estimated that 1 billion people are hypertensive, accounting for an estimated 7.1 million deaths per year. [12] It is becoming an increasingly common problem because of increased longevity and the prevalence of contributing factors such as obesity, physical inactivity, and unhealthy diet. [13] [14] The prevalence in many developing countries, particularly urban societies, is already as high as those seen in developed countries. [15]

The prevalence of essential HTN in the US was estimated to be 65 million people in 2000, compared with 50 million people in 1990. [16] Based on National Health and Nutrition Examination Surveys (NHANES) data, prevalence is highest in black women, who also develop HTN at a younger age than other groups. [17] Prevalence is higher in white Americans than in Mexican Americans. [18] The incidence increases with age in people of all ancestries and both sexes. Prevalence is higher in men than in women before 60 years of age, but equal after this age. [5] The lifetime risk is 90% for men and women who were normotensive at 55 years of age and survive to 80 years. [19]

Essential hypertension

最后更新于: Mar 06, 2014

精粹	基础	预防	诊断	治疗	随访	文献资料
总结 概览	定义 流行病学 病原学 病理生理	一级预防 筛检 <u>二级预防</u>	病史与检查 实验室检查 鉴别诊断 诊断步骤 诊断标准 诊断指南 病史	具体方法 治疗步骤 新疗法 治疗指南 证据	推荐 并发症 预后	参考文献 网站资源 患者教育 致谢 Related BMJ content

二级预防

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Secondary prevention

Aggressive lifestyle modifications should be initiated in patients with pre-HTN (BP 120 to 139/80 to 89 mmHg) to delay or prevent the onset of overt HTN. Furthermore, other cardiovascular risk parameters should be aggressively managed. For example, LDL-cholesterol should be maintained at less than 100 mg/dL (2.59 mmol/L) in people with type 2 diabetes. Accordingly, patients with pre-HTN should be evaluated for occult cardiovascular risk by screening for diabetes or dyslipidaemia with fasting blood sugar and lipid levels.

Essential hypertension

最后更新于: Mar 06, 2014

精粹	基础	预防	诊断	治疗	随访	文献资料
总结 概览	定义 流行病学 病原学 病理生理	一级预防 筛检 二级预防	病史与检查 实验室检查 鉴别诊断 诊断步骤 诊断标准 诊断指南 病史	具体方法 治疗步骤 新疗法 治疗指南 证据	推荐 并发症 预后	参考文献 网站资源 患者教育 致谢 Related BMJ content

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鉴别诊断		
Differential diagnosis		
Condition	Differentiating signs/symptoms	Differentiating tests
Drug-induced	<ul style="list-style-type: none">There may be signs of acute intoxication, withdrawal, or cravings with cocaine/sympathomimetics use.History of treatment with or ingestion of non-steroidal anti-inflammatory drugs, OCPs, sympathomimetics, herbal medications (e.g., black cohosh, capsicum, ma huang), or liquorice.	<ul style="list-style-type: none">Drug toxicology screen may detect an illicit substance.Hypokalaemia if excessive liquorice.
Chronic renal failure	<ul style="list-style-type: none">There may be pruritus, halitosis, oedema, or change in urine output.	<ul style="list-style-type: none">High serum creatinine.Chronic anaemia may be seen.Renal ultrasound may identify sclerotic or polycystic kidneys.

1.疾病名称

2.鉴别症状

3. 鉴别检验

精粹	基础	预防	诊断	治疗	随访	文献资料
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Treatment approach

The main goal of treatment is to decrease the risk of mortality and of cardiovascular and renal morbidity. [5] BP goal should be less than 140/90 mmHg. Regarding patients with concomitant diabetes mellitus, there is good-quality evidence that very intensive BP lowering (targeting a systolic pressure <120 mmHg, as compared with targeting <140 mmHg) does not lessen risk (composite outcome: non-fatal MI, non-fatal stroke, or death from cardiovascular cause) and may increase risk of adverse events. [11]

Older patients should be treated with antihypertensive therapy with a goal target BP of 140/90 mmHg, as is the goal in the general population. However, because of differences in the general health of very old patients, the decision to treat should be on an individual basis, and BP lowering should be gradual and carefully monitored.

In the general population aged ≥ 60 years, the guideline recommends pharmacological therapy to lower blood pressure when BP $\geq 150/90$ mmHg. [4] However, there was insufficient evidence to recommend treatment in people with HTN, including black people, those with cardiovascular disease, and those with multiple risk factors.

Lifestyle modification

The initial approach to a newly diagnosed patient is to control and adherence to therapy. Initial

- Sodium reduction (<2 g/day)
- Dietary Approaches to Stop Hypertension

Evidence score

Close

Lowering of BP: there is medium-quality evidence that reduced dietary salt intake modestly reduces BP compared with usual diet in people with HTN.

Evidence level B

Randomized controlled trials (RCTs) of <200 participants, methodologically flawed RCTs of >200 participants, methodologically flawed systematic reviews (SRs) or good quality observational (cohort) studies.

More info from BMJ Clinical Evidence

the guideline recommends pharmacological therapy to lower blood pressure when BP $\geq 150/90$ mmHg, concluding that the risks associated with HTN and the need for adequate modification including: [3] [12] [42] [50] [51] [52]

the risks associated with HTN and the need for adequate modification including: [3] [12] [42] [50] [51] [52]

daily, whole grains, low sodium, low-fat proteins)

证据质量分级

Essential hypertension

精粹
总结
概览

基础
定义
流行病学
病原学
病理生理
分类

预防
一级预防
筛检
二级预防

诊断
病史与检查
实验室检查
鉴别诊断
诊断步骤
诊断标准
诊断指南
病史

治疗
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Treatment guidelines

治疗指南

Europe [show all](#)

2007 Guidelines for the management of arterial hypertension [37]

► [Summary](#)

Hypertension. Management in adults in primary care: pharmacological update.

► [Summary](#)

North America [show all](#)

The seventh report of the Joint National Committee on the Prevention, Detection, Evaluation and Treatment of High Blood Pressure [1]

► [Summary](#)

Institutional guidelines

Guidelines added by your institution:

中国高血压指南

Summary: 卫生部心血管病防治研究中心提供的中国高血压防治指南

定制本机构需要的指南

Essential hypertension

最后更新于: Mar 06, 2014

精粹	基础	预防	诊断	治疗	随访	文献资料
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Complications

并发症

Complication show all	Timeframe	Likelihood
> coronary artery disease	long term	high
> cerebrovascular accident	long term	high
> left ventricular hypertrophy (LVH)	long term	high
> congestive heart failure	long term	medium
> retinopathy	long term	medium
> aortic dissection	long term	medium
> peripheral artery disease	long term	medium
> renal failure	long term	medium

Best Practice 提供大量彩色图像

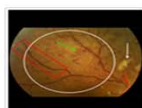
Diabetic retinopathy

最后更新于: Nov 22,

精粹	基础	预防	诊断	治疗	随访	文献资料
总结 概览	定义 流行病学 病原学 病理生理 分类	一级预防 筛查 二级预防	病史与检查 实验室检查 鉴别诊断 诊断步骤 诊断标准 诊断指南 病史	具体方法 治疗步骤 新疗法 治疗指南 证据	推荐 并发症 预后	参考文献 图像 网站资源 患者教育 致谢 Related BMJ content

Images

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Proliferative diabetic retinopathy: optic disc new vessels (red arrow), intraretinal microvascular abnormality (IRMA; gr...
Credited



Non-proliferative diabetic retinopathy: blot haemorrhage (white circle)
Credited



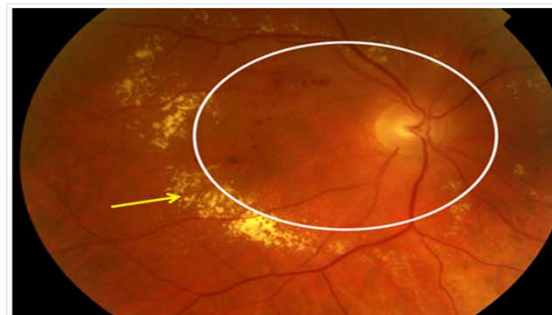
Non-proliferative diabetic retinopathy with macular oedema: exudate (yellow arrow)
Credited



Non-proliferative diabetic retinopathy with macular oedema: nerve fibre layer haemorrhage (blue arrow), exudate (yellow...
Credited



Non-proliferative diabetic retinopathy with macular oedema: thickened retina (white ellipse), exudate (yellow arrow)
Credited



Non-proliferative diabetic retinopathy with macular oedema: thickened retina (white ellipse), exudate (yellow arrow)

Courtesy of Moorfields Photographic Archive

This image is referenced in the following places:

- ♦ [Pathophysiology](#)

Best Practice实例演示—从症状入手

临床问题:

A **70-year-old man** is discovered by a family member to have **difficulty speaking** and **extreme balance difficulty**.

How should you proceed with **assessing** and **managing** this patient?

70岁老年人，被家人发现出现失语及极度平衡困难。你应该如何评估和管理这个病人？

症状查寻 - Symptom Searching

Signed in as **TAO ZHANG** 中文(中国)

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Your instant second opinion

搜索题名

按疾病浏览

balance difficulty

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证据 157

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疾病	<div><input type="checkbox"/> Constipation</div> <div>精粹 基础 诊断 治疗 随访 文献资料</div>
症状分析	<div><input type="checkbox"/> Assessment of learning difficulty and cognitive delay</div> <div>概览 急诊 诊断 文献资料</div>
症状分析	<div><input type="checkbox"/> Assessment of balance disorders</div> <div>概览 急诊 诊断 文献资料</div>
疾病	<div><input type="checkbox"/> Constipation in children</div> <div>精粹 基础 预防 诊断 治疗 随访 文献资料</div>
症状分析	<div><input type="checkbox"/> Assessment of falls in the elderly</div> <div>概览 急诊 诊断 文献资料</div>

2.选择症状评估主题

2.选择症状评估主题

应急考虑

Assessment of balance disorders

最后更新于: Apr 26, 2013

概览 总结 病原学	急诊 应急考虑	诊断 诊断步骤 鉴别诊断 诊断指南	文献资料 参考文献 患者教育 致谢 Related BMJ content
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Urgent considerations

3.根据“应急考虑”提示，优先排除高危险疾病

See [Differential diagnosis](#) for more details

Stroke

Cerebellar haemorrhage or infarction may lead to herniation and are neurosurgical emergencies. Acute brainstem strokes need to be evaluated for vertebrobasilar dissection or atherosclerosis. Thrombolytic therapy should be considered in cases of non-haemorrhagic brainstem or cerebellar infarction. When bulbar involvement occurs, measures should be taken to avoid aspiration and respiratory failure. Cerebellar or brainstem infarction may be misdiagnosed as vestibular neuritis in patients presenting with acute dizziness or balance difficulty and a high index of suspicion must be maintained not to miss these serious and potentially life-threatening neurological causes.

Wernicke's encephalopathy

Wernicke's encephalopathy needs to be considered when acute ataxia is associated with altered level of consciousness, ophthalmoplegia, and nystagmus. [10] Alcoholics, people with gastric disorders (e.g., chronic gastritis), and those experiencing recurring vomiting (e.g., hyperemesis gravidarum) are at risk of developing Wernicke's encephalopathy. Unless treated as an emergency with thiamine replacement parenterally, permanent neurological injury may occur.

Red flags

- ◆ Vestibular neuritis/labyrinthitis
- ◆ Thiamine deficiency
- ◆ Haemorrhagic stroke
- ◆ Ischaemic stroke
- ◆ Autoimmune inner ear disease
- ◆ Meningitis
- ◆ Wernicke's encephalopathy
- ◆ Spinal cord trauma
- ◆ Guillain-Barre syndrome (GBS), polyradiculopathy

鉴别诊断

Assessment of balance disorders

最后更新于: Apr 26, 2013

概览	急诊	诊断	文献资料
总结	应急考虑	诊断步骤	参考文献
病原学		鉴别诊断	患者教育
		诊断指南	致谢
			Related BMJ content

Differential diagnosis

4.根据“鉴别诊断”提示，进行详细诊断

> Benign paroxysmal positional vertigo (canalithiasis)

< Haemorrhagic stroke

see our comprehensive coverage of Haemorrhagic stroke

History	Exam	1st test	Other tests
hx of hypertension; acute-onset ataxia and dizziness, headache, vision loss, diplopia, dysarthria, dysphagia, sensory symptoms, and weakness involving the limbs; may progress to altered level of consciousness	altered level of consciousness, ocular motility disturbance, nystagmus, pupillary abnormalities such as Horner's syndrome, dysarthric speech, abnormal gag reflex, sensory loss, pyramidal weakness	<ul style="list-style-type: none">CT brain: intracranial haemorrhage <div>CT brain</div> <div>CT is superior to MRI in cases with acute cerebellar bleeding.</div>	

< Ischaemic stroke

see our comprehensive coverage of Ischaemic stroke

History	Exam	1st test	Other tests
hx of vascular disease; acute-onset ataxia, dizziness, vision loss, diplopia, dysarthria, dysphagia, sensory symptoms, weakness involving the limbs; may progress to altered level of consciousness	altered level of consciousness, ocular motility disturbance, nystagmus, pupillary abnormalities such as Horner's syndrome, dysarthric speech, abnormal gag reflex, sensory loss, pyramidal weakness	<ul style="list-style-type: none">MRI brain: evidence of infarction	<ul style="list-style-type: none">angiography (conventional CTA or MRA): vertebrobasilar artery stenosis or dissections

Thank You

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