Evidence in Practice Project

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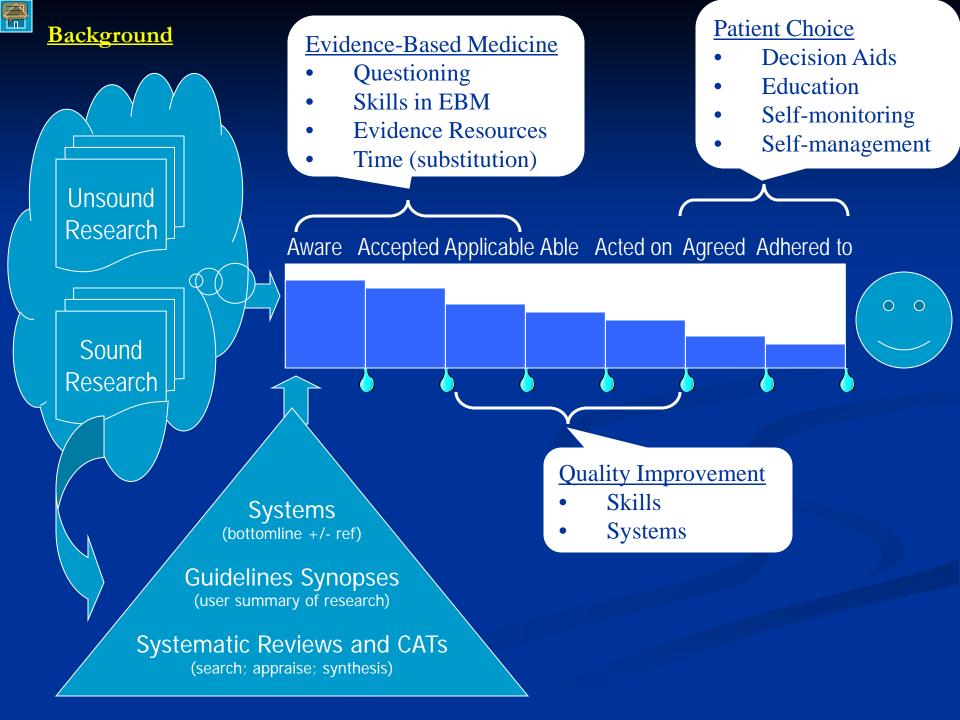
Hypertension guideline recommendations in UK General Practice: survey of awareness, agreement, adoption and adherence

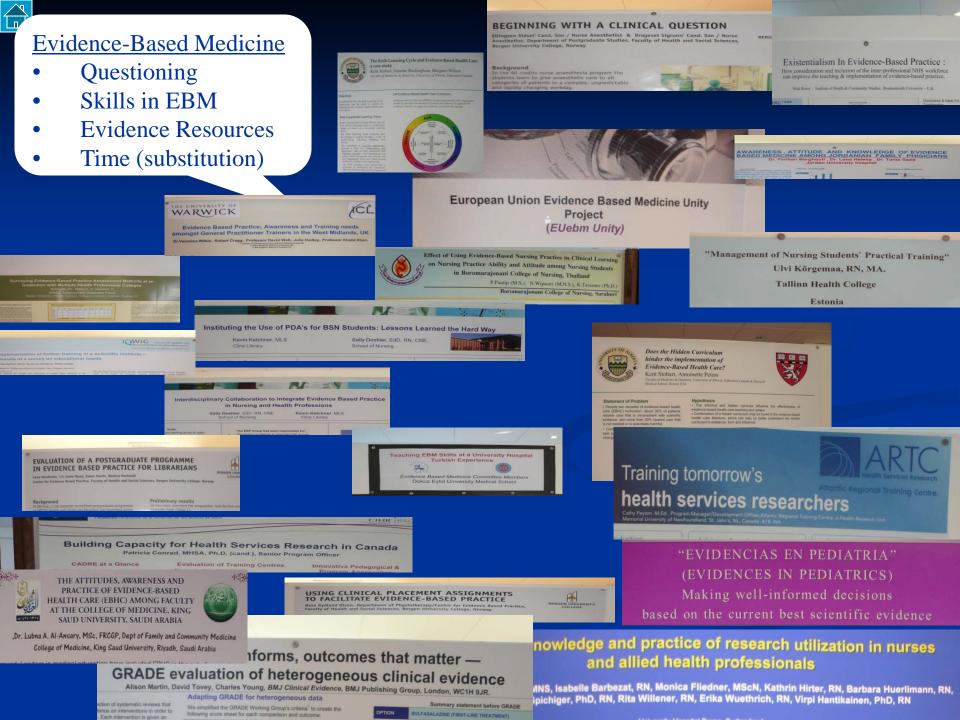
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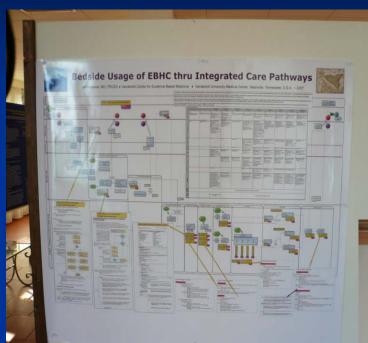












Quality Improvement

- Skills
- Systems





Patient Choice

- Decision Aids
- Education
- Self-monitoring
- Self-management



Awareness to Adherence for Hypertension Guidelines

Non-application of guidelines may be due to several factors*:

- Lack of awareness,
- Lack of agreement,
- Lack of belief that one can actually perform a behaviour,
- Lack of outcome expectation
- The inertia of previous practice
- External barriers.



We surveyed UK general practitioners to better understand their reasons for not adopting specific guidance within the NICE and BHS hypertension guidelines

NHS

National Institute for Clinical Excellence

Issue date: August 2004

Quick reference guide

Hypertension – management of hypertension in adults in primary care

Journal of Human Hypertension (2004) 18, 159–166 e 2004 Hutan Publishing Group - All rights research (1953-624 (604 525.00

BRITISH HYPERTENSION SOCIETY GUIDELINES

Guidelines for management of hypertension: report of the fourth working party of the British Hypertension Society, 2004—BHS IV

B Williams¹, NR Poulter², MJ Brown³, M Davis⁴, GT McInnes⁵, JF Potter⁶, PS Sever² and

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- · Provide advice on life-style modifications for all people with high blood pressure (HP) and those with bookerline or high-normal HP. Advice on
- with constants or ingrandmal Pr. Advice on effective nonphermacological intervention is provided (A).
 Initiate antihypertensive drug therapy in people with sustained systolic BP (SBP) >160 mmHg or sustained distribute BP (SBP) >100 mmHg
- Make treatment decisions in people with sus-tained SBP between 140 and 159 mmHg and/or sustained DBP between 90 and 99 mmHg according to the presence or alone of cardiorescular disease, other target organ damage, or an est-mated cardiorescular disease (CVD) fisk of \$20% over 10 years, according to the Joint British Societies CVD fisk assessment programme/fisk
- CVD risk replaces CHD risk estimation to reflect the importance of stroke prevention as well as

CHD prevention. The new CVD risk threshold of >20% is equivalent to a CHD risk of approxi-mately >15% over 10 years. In people with diabetes mellitus, initiate anti-

- hypertensive drug therapy if SBP is sustained >140 mmHg and/or DHP is sustained >90 mmHg . In nondiabetic people with hypertension, the
- optimal HP treatment goals are: SHP < 140 mmHg and DHP < 85 mmHg. The minimum acceptable level of control (Audit Standard) secommended is <150/<90 mmHg. Despite the best practice, these levels will be difficult to achieve in some
- hypertensive people (B).

 In people with diabetes and high BP, optimal BP goals are SBP < 130 mmHg and DBP < 80 mmHg.

 The minimum acceptable level of control (Audit Standard) recommended is <140/<80 mmHg. Despite the lest practice, these levels will be difficult to achieve in some people with diabetes and hypertension (B).
- and myserescon (s).
 Meta-analyses of BP-lowering trials have con-firmed that, in general, the main determinant of benefit from BP-lowering drugs is the achieved BP, rather than choice of therapy. In some circumstances, there are compelling indications and containdications for specific classes of antihypertensive drugs, and these are specified
- Most people with high BP will require at least two BP-lowering drugs to achieve the recommended BP goals. A treatment algorithm (AB/CD) is provided to advise on the sequencing of drugs and logical drug combinations (C). When there are no cost disadvantages, fixed drug combinations

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Condeline Working Budy Chairman: Profesor Byon Williams, Ondeline Working Pody Chairman: Profesor Byon Williams, Working Forty Messberg Profesor Neil B Profesor MSC PRCP, Repetal College, London. Profesor Mich. 9 Stocket. No. 2018. venity of Cambridge, Dr Mark Devis, MSCOZ General Practi-tiones, Leads, Professor Gordon T McCones, MD FSCZ University of Glasgow, Professor John F Potes, MD FSCZ, University of Latence Control of Cambridge (Control of Cambridge) Leicentee Probusor Feter 5 Sever, PhD FECF, Imperial College London. British Bygesteeston Society member: Dr Simon McG Thom, MD FECE; Imperial College London.

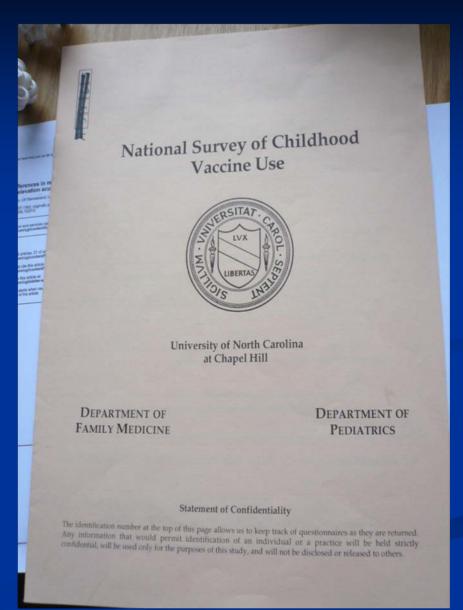
Clinical Guideline 18



Methods

Pathman DE

Model of the cognitive and behavioural steps physicians take when they comply with national clinical practice guidelines





Pathman, postulated that

physicians, who are initially unaware of a specific piece of research or guideline recommendation, must first become *aware* of it, then

agree with it in principle, then decide it is appropriate and feasible to use in their own practice - adopt it, and finally succeed in following it at appropriate times -adhere to it.

Pathman DE et al. The awareness-to-adherence model of the steps to clinical guideline compliance. The case of pediatric vaccine recommendations. Med Care 1996; 34(9):873-889.



Methods

- A questionnaire was sent as a link in a

 About Doctors.net.uk

 Of pay up two years toom
 Hally life or lines
 Hally life or lines
 A parent's guide to me mes
 A parent's guide to m
- •The questionnaire was adapted from the original four steps of Pathman's 'awareness-to-adherence' questionnaire

EDUCATION - online learning, appraisal & revalidation

POLL: Existing OOH services are 'inadequate and inflexible
Agree Disagree vote (view result)

latest modules completed

· Breast Cancer Manageme more.

ECG Interpretation 200 more...

Hypertension 2007/08 more...

· Death: Certification, more...

· Confidential records f more

• "inappropriate code fo more...

Instant medical database access

Full-text reference materials Search UK drugs and dosages

Weekly iournals summarised

Textbook written by members Clinical case studies online

· Alternative Careers to more...

• Medical Director more..

· Staff Grade in Diabetes more...

• foiav - i cheated more.

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· General Practitioners

Hospital Physicians

· Online textbooks

Journal Watch
 Medipaedia

FORUM - clinical discussion & support

Search (a) Medline (b) eFormulary for

Advice on Locum please more.
 NHS direct. 2(2)2 more.

· save my bacon butties more...

Doctors.net.uk

he free network of 149,484 UK doctors

Doctors.net.uk/Vodafone

E-MAIL - spam and virus protection

JOIN forgotten password?

- •We focused the questions on seven recommendations from the British Hypertension guidelines and the NICE guidelines
- •The questionnaire was piloted on a sample of GPs from the Department of Primary Health Care, University of Oxford



Methods

Respondents were classified as unaware of a recommendation if they had heard or read 'nothing at all' about the recommendation.

They were considered to have adopted a guideline when they reported implementing it more 'than half of the time'.

They were considered to adhere to a guideline when they 'always' or 'more than half the time' applied it in clinical practice and specified in their free text response the system they had in place to promote or monitor application.



Results

Respondents were similar to the GP population in terms of gender, employment status but Differed in terms of GP partner principal (57% in the survey versus 83%)

	Female (%)	Male (%)	Total
Total	161 (40.1%)	240 (59.9%)	n =401
Current position			
GP registrar	16 (4.0)	24(6.0)	40 (10.0)
GP partner principal	71(17.7)	156 (38.9)	227 (56.6)
Non principal	71 (17.7)	57 (14.2)	128 (31.9)
Other	3 (0.7)	3(0.6)	6 (1.4)
Year of qualification			
pre 1960			0 (0)
1960 - 1969	1 (0.2)	6 (1.5)	7 (1.7)
1970 - 1979	17 (4.2)	36 (9.0)	53 (13.2)
1980 - 1989	41 (10.2)	73 (18.2)	114 (28.4)
1990 - 1999	70 (17.5)	85 (21.2)	155 (38.7)
2000+	32 (8.0)	40 (10.0)	72 (18.0)



71 % Awareness and Agreement leads to 50% application

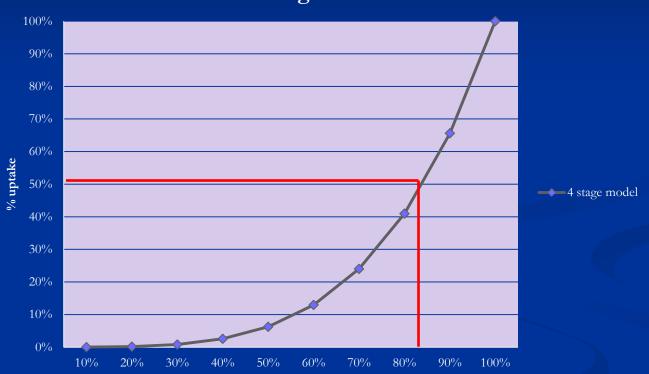


% implementation at each stage



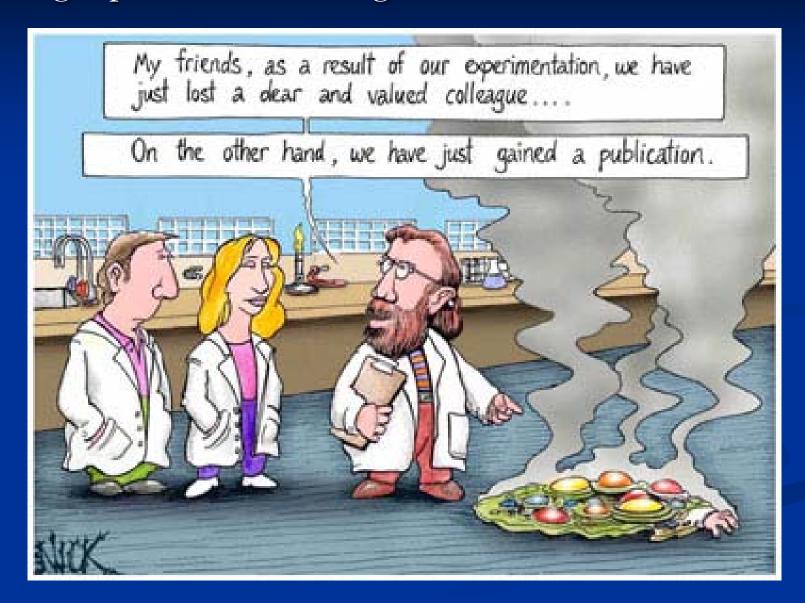
84 % Awareness, Agreement, Adoption and Adherence at every stage leads to implementation of 50%







Why might practitioners not agree with recommendations





Thank You







Awareness, Agreement, Adoption, Adherence

