Introduction - Why EBD?

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The graduate

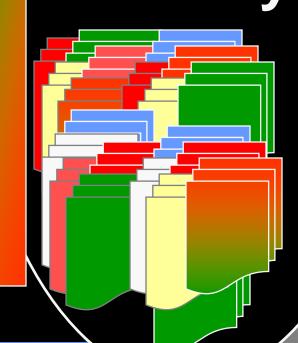


Advertising

- producers
- colleagues

Teachers "Curriculum"

Publications in dentistry





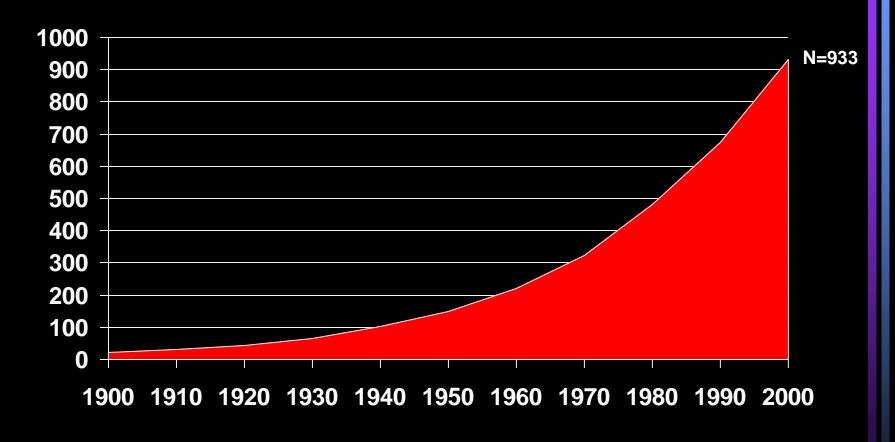
The graduate

- Has been taught and can perform many basic clinical procedures - not necessarily the most modern
- No hands-on experience with many procedures common in modern dental clinics
 - from where and how can further training be obtained?
- Theoretic knowledge at zenith, from now on less time for reading / question of priorities
- Already from day 1 the science in dentistry advances further - how to stay updated? 3

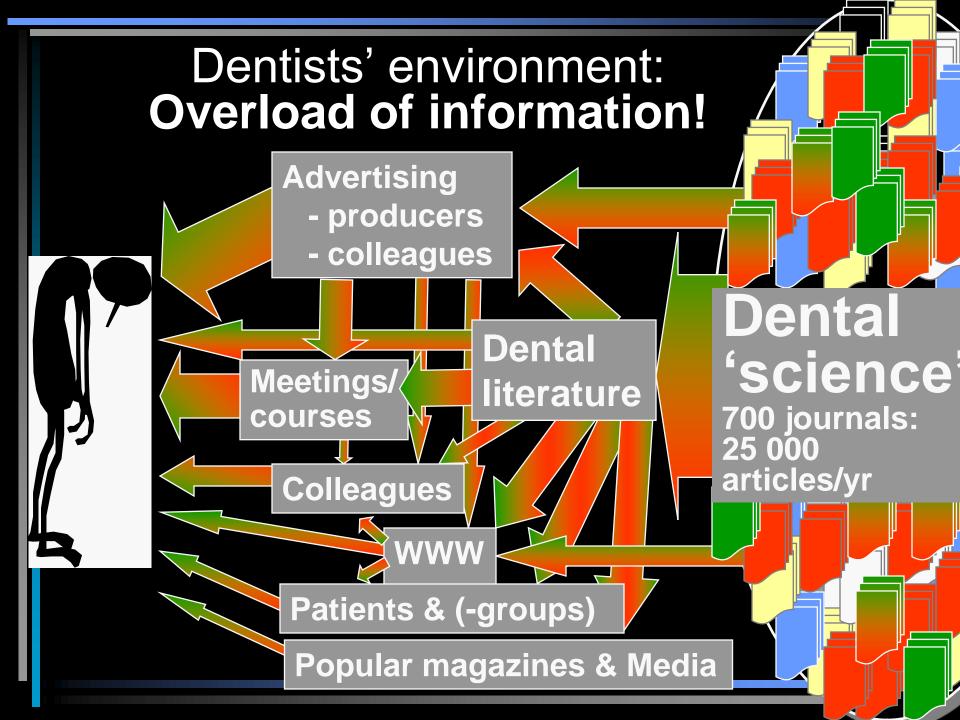
Information Explosion in Medicine and Health Care

- Tremendous growth in publications
 - number of papers doubling every 5-10 years
 - increasing number of journals in a given field
- Related to numbers of physicians and scientists
 - volume of publications key to success
- Infomercial publications

Dental journals in circulation today



Source: Ulrich's International Periodicals Directory



We have to consider not only the amount of information we receive, but also the quality of this information

What would you answer be if ...

a 32 y patient calls four hours after a wisdom tooth has been removed and complain about bleeding, pain and severe swelling.

She demands immediately some analgetics, some antifebriles and perhaps also antibiotics?

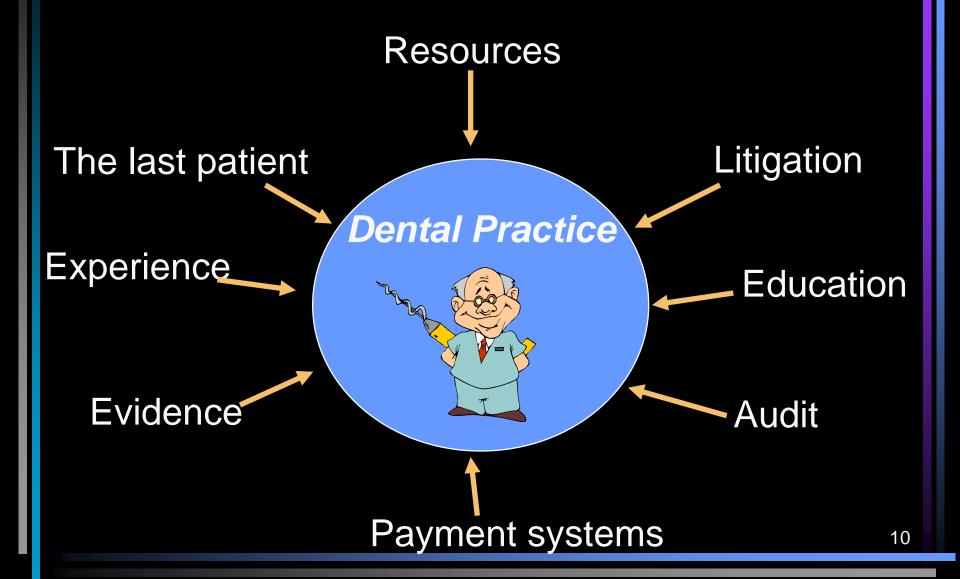
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..or if ...

a 66 year old woman comes to your clinic because she feels she hasn't received any help from her former dentist about oral lichen planus. She wants to confer with you about a new treatment option described in the

latest issue of 'Health & Fitness'

Influences on treatment decisions

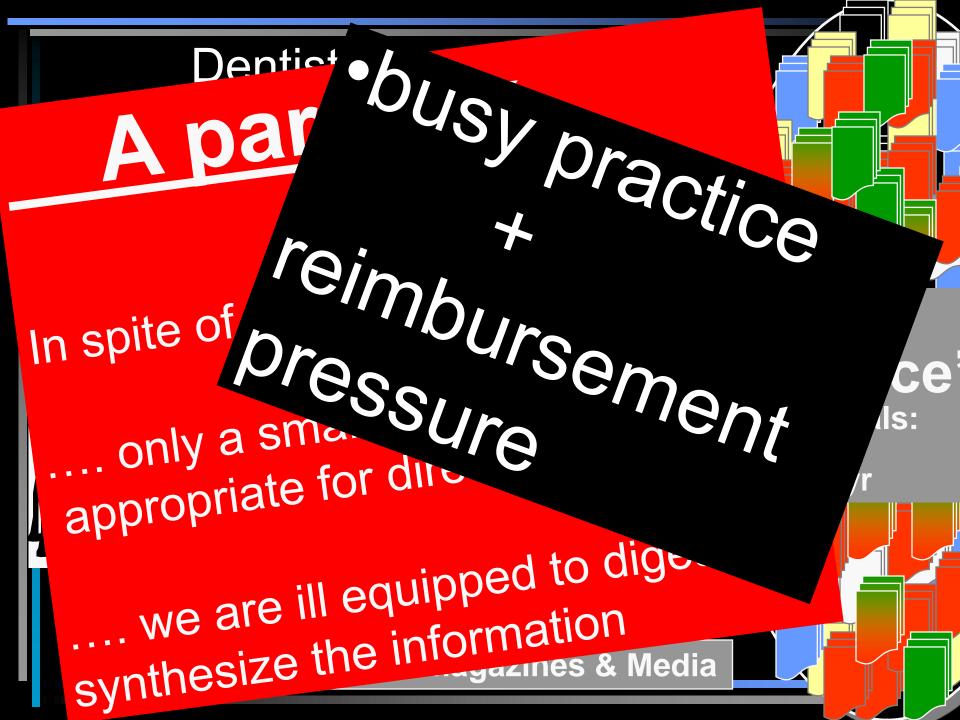


Approaches when we're uncertain

- A patho-physiological appr.: this makes sense.
 - An expert / "how I was trained" approach: I learned this worked / didn't work...
 - An anecdotal appr.: this didn't work last time...
 - A consultant approach: maybe I can ask a few colleagues I work with....
 - A textbook approach: often outdated and no strong support.
 - Confess that you don't know or do something and pray...
 - or invent some combination of approaches

Where can I find relevant clinical information when I need it fast?

- Can I consult a colleague?
- Are my journals and textbooks organised and updated?
- Is a library nearby?
 - Can answers be found on the Internet?



The situation for many dentists today



 We need new information every day, but most of our needs are never met



2. consequently, our clinical knowledge and performance in the clinic deteriorates



3. and traditional instructional continuing education courses do not improve our performance.

Maybe this new thing EBM can be of any help?



An increasingly fashionable tendency of a group of young, confident, and highly numerate medical academics to defame the performance of experienced clinicians by using a combination of epidemiological jargon and statistical manipulation.

Arguments, usually presented with near evangelistic zeal, that no health related action should ever be taken by a doctor, a nurse, a purchaser of health services, or a politician unless and until the results of several large and expensive research trials have appeared in print and approved by a committee of experts

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Replaces original findings with subjectively selected, arbitrarily summarised, laundered and biased conclusions of indeterminate validity or completeness.

It has been carried out by people of unknown ability, experience, and skills using methods whose opacity prevents assessment of the original data.

- A strategy for how to cope with changes not about knowing all the answers.
- t is not so much what you have read in the past, but about how you go about identifying and meeting your ongoing learning needs, and applying the new knowledge appropriately and consistently in new clinical settings.

The practice of a process of lifelong, problem-based learning in which caring for our own patients creates the need for evidence about the cutting edge knowledge concerning diagnosis, prognosis, therapy, and other clinical and health care issues.

Two incentives for practicing Evidence-based Dentistry

- A strategy for solving clinical problems on a daily basis.
 - a practical aspect
- A strategy for being reasonably certain that my advises and treatment are the best available to my patients.
 - an ethical aspect

The aim of evidence-based medicine is to eliminate the use of ineffective, expensive, or even dangerous medical decision-making

(Rosenberg & Donald, BMJ, 1995)

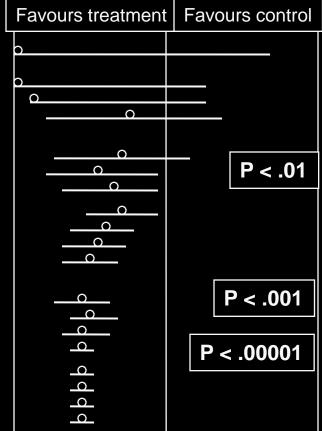
Ethical reasons?

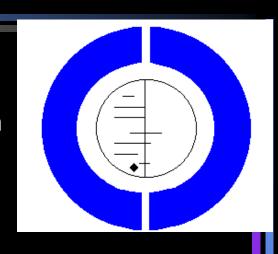
COCHRANE: Corticostereoids and premature birth

Lau et al. Streptokinase and myocardial infarction

N Eng J Med, 1992.

<u> </u>		
	Cumulative	;
Year	RCTs	PTs
	1	23
1960		
	2	65
1965	3	149
	4	316
1970		
	7	1793
	10	2544
	11	2651
1975	15	3311
	17	3929
	22	5452
	23	5767
1980		
	27	6125
	30	6346
1985	33	6571
	43	21059
	54	22051
	65	47185
	67	47531
1990	70	48154



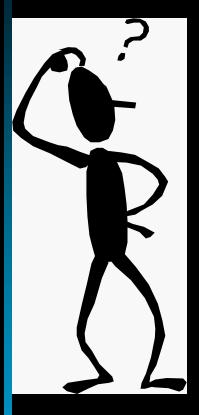


Textbook / review
recommendations

R	S	Е	NM
			21
			5
		1	10
		1	2
		2	8
			7
			8
	1		12
	1	8	4
	1	7	3
5	2	2	1
15	8		1
6	1		

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0.5 _____ 1.0 ____ 2.



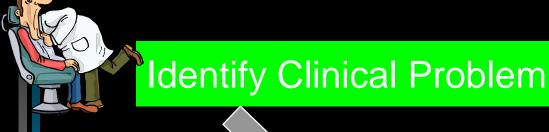
Can evidencebased dentistry be integrated in our daily practice?

How is EBD practiced?

- 1. Generate focused clinical questions
 - Questions for articles on therapy, diagnostic tests, prognosis, harm, etc.
- 2. Efficiently find the evidence
 - Database searching: tools and techniques
 - Locating appropriately focused clinical studies
- 3. Determine validity, results, applicability
 - User's Guide to the Medical Literature
- Apply the results of appraisal in clinical practice / teaching

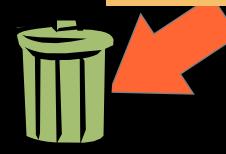
5. Evaluate performance

Practice of Evidence-based Dentistry





Make Sense of Evidence

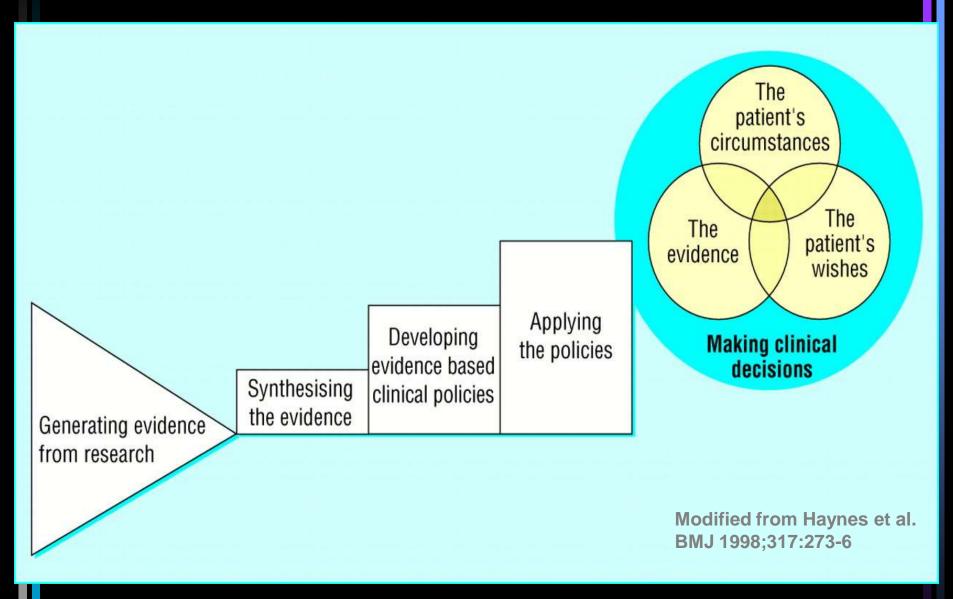


Act on Evidence



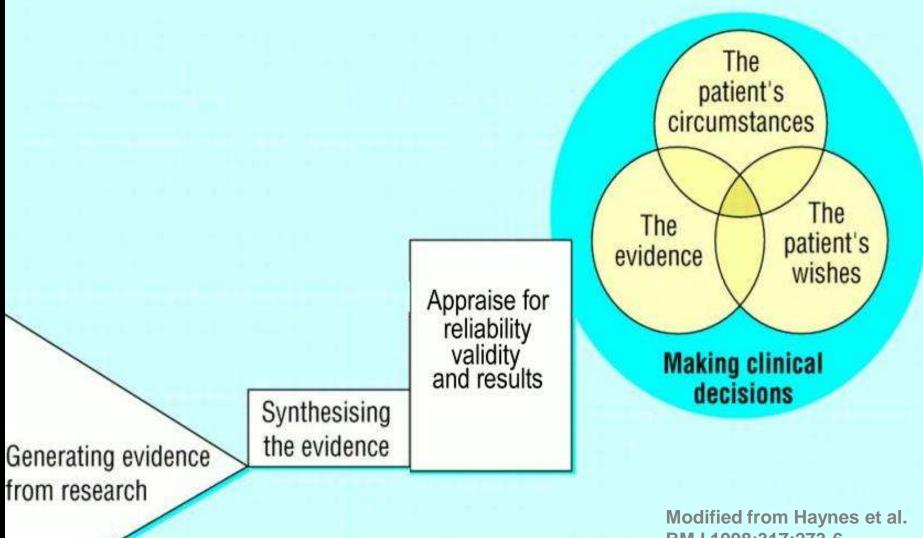
How can we apply EBD in our daily practice?

1. By accepting and applying practice protocols, policies and guidelines based on evidence-based principles



How can we apply EBD in our daily practice?

- 2. By seeking and applying evidence-based dentistry summaries generated by others
- Journals that critically appraise primary studies
- Systematic reviews



BMJ 1998;317:273-6

How can we apply EBD in our daily practice?

- 3. By learning how to practice evidence-based dentistry ourselves
 - -Books
 - -Seminars
 - —Internet
 - Courses
 - Articles
 - Link banks

The patient's circumstances The The patient's evidence Synthesising wishes the evidence Generating evidence from research Making clinical decisions Modified from Haynes et al. BMJ 1998;317:273-6