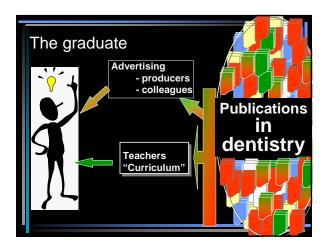
Evidence-based Practice in Dentistry Why Bother? Asbjorn Jokstad Institute of Clinical Dentistry, University of Oslo, Norway

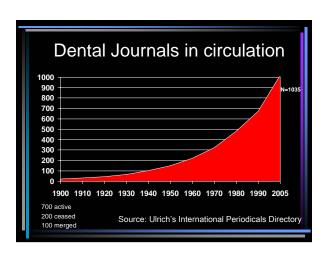


The graduate Has been taught and can perform many basic procedures - not necessarily the most modern No hands-on experience with many procedures common in modern dental clinics - from where and how can further training be obtained? Theoretic knowledge at zenith, from now on less time for reading / question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

A rapidly changing society

A rapidly changing society

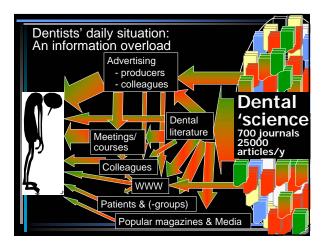
1. There is an Information Explosion in all fields of Biomedicine



A rapidly changing society

The production of new knowledge in biomedicine is at maximum in historical context

- Tremendous growth in publications
- Related to numbers of physicians and scientists
- Infomercial publications

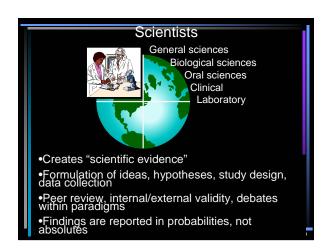


2. We need to consider not only the <u>amount</u> of information, but also the <u>quality</u> of this information

There is an Information Explosion in all fields of Biomedicine

Where and by who is new knowledge in oral sciences generated?









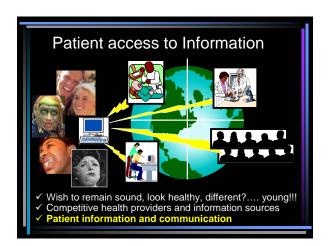




A rapidly changing society

- 1.The production of new knowledge is at maximum in historical context
- 2. The quality of information varies
- 3. Incessant replacements of established ideas and concepts
- 4. Information technology has improved the potential for information transfer to everybody





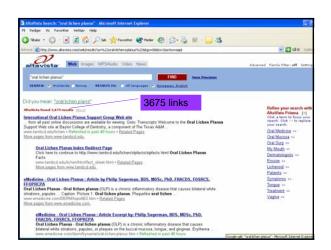
5. General practitioners
need new knowledge
to
meet the expectations
of educated patients in
this information age

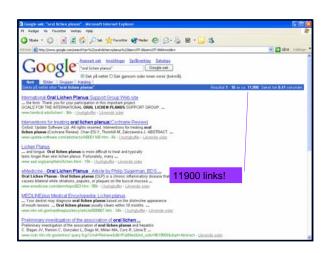
Are their needs met?

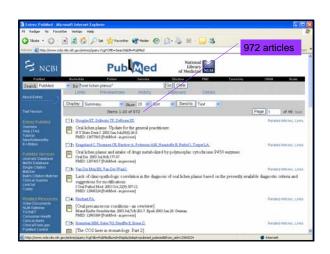
What would you answer be if ... a 32 y patient calls four hours after a wisdom tooth has been removed and complain about bleeding, pain and severe swelling. She demands immediately some analgetics, some antifebriles and perhaps also antibiotics?... ..or if ... a 66 year old woman comes to your clinic 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 Herbal Tea treatment described in the latest issue of 'Health & Fitness' What to when professionally uncertain? Apply: A patho-physiological approach: this makes sense...

What to when professionally uncertain? Apply: A patho-physiological approach: this makes sense An expert / "how I was trained" approach: I learned this worked / didn't work	
What to when professionally uncertain? Apply: A patho-physiological approach: this makes sense An expert / "how I was trained" approach: I learned this worked / didn't work An anecdotal approach.: this didn't work last time	
What to when professionally uncertain? Can I consult a colleague? Are my journals and textbooks organised and updated? Is a relevant library nearby? Can I find the answers on the Internet?	











What to when professionally uncertain	
A	pply: A patho-physiological approach An expert / "how I was trained" approach An anecdotal approach Colleague consulting approach Organised and updated journals and textbooks Library approach Internet approach
	Confess that you don't know what to do, or do something and pray or invent some combination of approaches

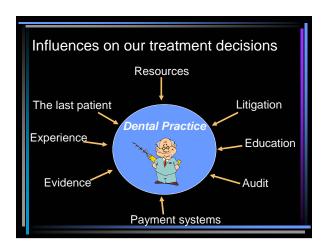
- 1.Information explosion
- 2.Quality of information
- 3.No theories are constant
- 4.Educated patients with access to information
- 5. Daily information needs
- 6.Paradox

The situation for many dentists today

1. 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.

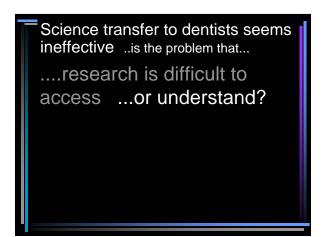


Do we today prepare our future colleagues to change behavior, attitude and methods in the lights of new knowledge?

How quickly do dentists change in accordance with new research?
Impacted wisdom teeth?
TMD management?
Restoration replacement needs?
Caries and remineralization potential
....
Science transfer to dentists seems to be ineffective

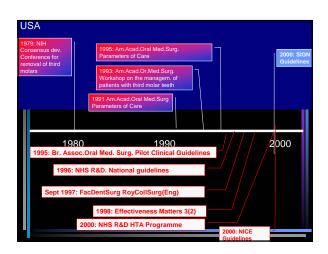


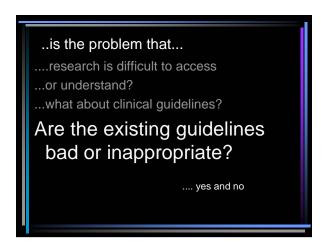














...is the problem that...research is difficult to access or understand?

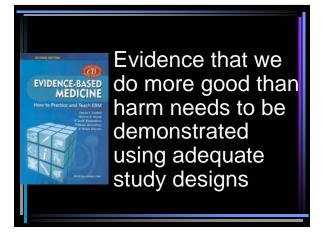
....research is difficult to access or understand?
... clinical guidelines ..are they bad or inappropriate?

Are the practicing dental professionals non-receptive?

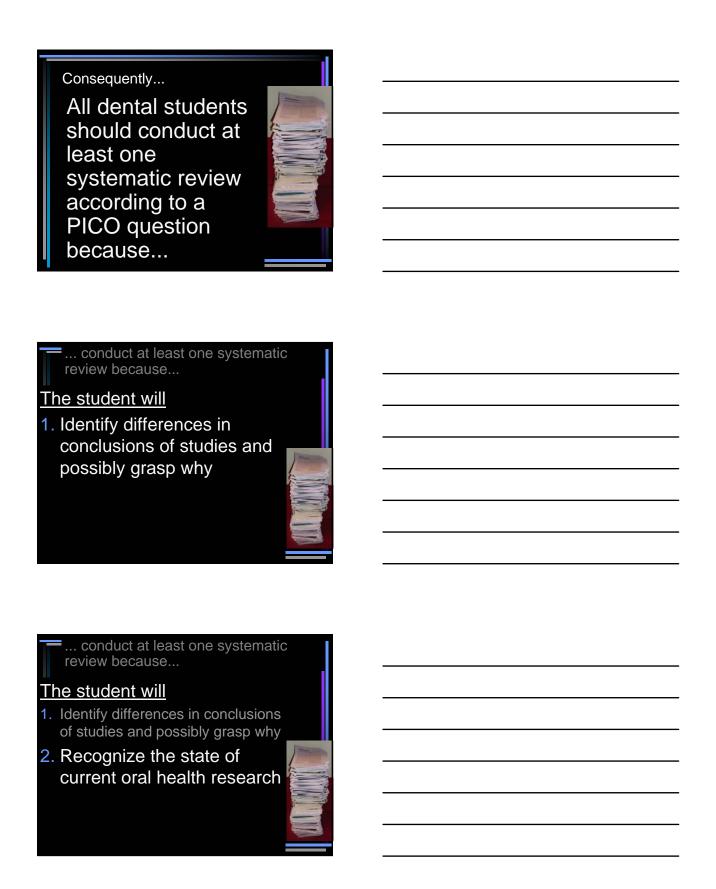
.... if so, who is responsible?and can something be done?

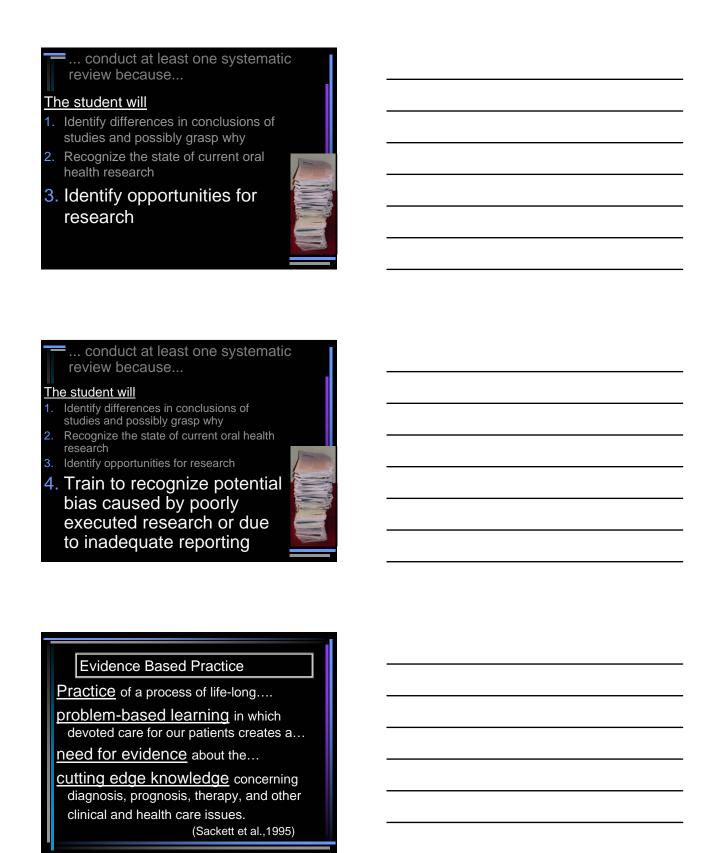
Our responsibilities as educators is to generate an ambition of life long learning and prepare them accordingly





- A fundament for life long learning is to possess skills in critical appraisal
- Critical appraisal of research must be an integral component of student training
- Curriculums should progress from being PBL- to become EBD-based





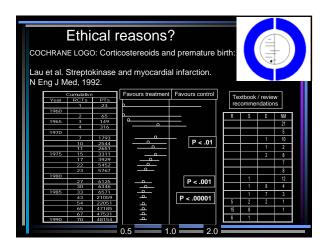
Two incentives for practicing Evidence-based Dentistry

- A strategy for solving clinical problems on a daily basis.
 - a practical aspect



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



Evidence Based Practice

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



(Rosenberg & Donald, BMJ, 1995)



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.



Evidence Based Dentistry?!

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 Randomized Controlled Trials have appeared in print and approved by a committee of experts



Evidence Based Dentistry?!

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.



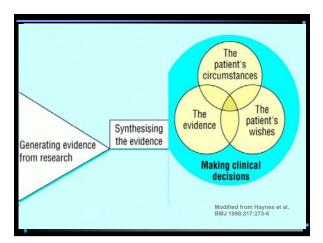
How can evidence-based dentistry be integrated in our daily practice?

EBD practice

- Generate focused clinical questions
 On therapy, diagnostic tests, prognosis, harm, etc. (= PBL)
- 2. Efficiently find the evidence (=PBL)
- 3. Determine validity, results, applicability of evidence
- 4. Apply the results of appraisal in clinical practice / teaching
- 5. Evaluate own performance

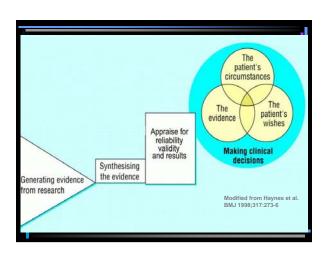
How can we apply EBD in our daily practice?

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

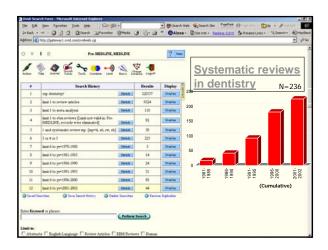
















How can we apply EBD in our daily practice?

- 2. By seeking and applying evidence-based dentistry summaries generated by others
- Secondary Journals
- Systematic reviews
- <u>IADR: International Collaboration for</u> <u>Evidence-based Dentistry</u>

How can we apply EBD in our daily practice?

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

